

P.W.

CONFIDENTIAL

Release Date 11-2-73

sl

COUNTY Apache AREA 10 mi W. Teec Nos Pos LEASE NO. Nav O-C 14-20-2250

WELL NAME AMERICAN FUELS CORPORATION, NAVAJO - C

LOCATION SW/SW SEC 6 TWP 40N RANGE 29E FOOTAGE 630' FWL 760 FSL

ELEV 5583 GR 5595 KB SPUD DATE 4-27-73 STATUS P+A 11-21-95 TOTAL DEPTH 6534'
COMP. DATE 10-5-73

CONTRACTOR Mesa Drillers

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
8 5/8"	364'	110 sx		<input checked="" type="checkbox"/>
5 1/2"	6380	280 sx		<input type="checkbox"/>
				DRILLED BY CABLE TOOL <input type="checkbox"/>
				PRODUCTIVE RESERVOIR <input type="checkbox"/>
				INITIAL PRODUCTION <input type="checkbox"/>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Chinle	1076		x	Elbert 6064
DeChelly	2095			McCracken 6236
Organ Rock	2510			Aneth 6364
Cutler Evaps	3178			Pre-Cambrian 6518
Hermosa	3984			
Upper Ismay	4654			
Lower Ismay	4726			
Desert Creek	4780			
Akah	4880			
Barker Creek	5090			
Lwr Hermosa	5340			
Molas	5640			
Mississippian	5744			
Ouray	6000			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IE GRN	6294-98;6336-38	4922-5178	SAMPLE DESCRP. _____
	6346-48;6140-42		SAMPLE NO. _____
	5412-16;5168-78		CORE ANALYSIS _____
	5250-72;5322-26		DSTs _____
	5412-16		

REMARKS See memo dated 11-14-74 re Navajo Nation APP. TO PLUG _____
 PLUGGING REP. _____
 COMP. REPORT 12-11-73

WATER WELL ACCEPTED BY _____

BOND CO. NA CASH BOND filed in P/N 608 BOND NO. C.D. # 2578904
-2-9-73

BOND AMT. \$ 25,000 CANCELLED _____ ORGANIZATION REPORT _____

FILING RECEIPT 2950 LOC. PLAT WELL BOOK PLAT BOOK

API NO. 02-001-20184 DATE ISSUED 4-24-73 DEDICATION W/2 of SW/4 80 acres

PERMIT NUMBER 610

(over)

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
NOG 8707-1141 (formerly 1116)

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A P/N 610

8. Well Name and No.

Black Rock # 4

9. API Well No.

02-001-20184

10. Field and Pool, or Exploratory Area

Black Rock

11. County or Parish, State

Apache County, Az

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

760' FSL & 630' FWL

Section 6 - 40N - 29E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Surface Restoration</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was plugged and abandoned on November 21, 1995. Following well plugging, surface rehabilitation operations and location reseeding operations were concluded on December 8, 1995. Verbal reseeding notification was given to Don Ellsworth, BLM, on December 1, 1995. Required surface restoration stipulations are complete.

CC: State of Arizona
Navajo Nation
BIA - Gallup

fid 2-5-96

Attachments: 3

14. I hereby certify that the foregoing is true and correct

Signed

Ronald O. [Signature]

Title Operations Manager

Date February 1, 1996

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

AUG-23-1995 10:47 FROM HARKEN ENERGY TO FARMINGTON P.01



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Farmington District Office
1235 La Plata Highway
Farmington, New Mexico 87401

*Rich-
FYI
mcc*

IN REPLY REFER TO:
3162.3-4 (07439)
NOG-8707-1116 (WC)

AUG 23 1995

Harken Southwest Corporation
P.O. Box 612007
Dallas, TX 75261

file 610

Dear Sir:

The following surface rehabilitation stipulations must be complied with as applicable, before well no. 4 Black Rock, NOG-8707-1116; 760' FSL/ 630' FWL, Sec. 6, T. 40 N., R. 29 E. can be approved for final abandonment (see 43 CFR 3162.3-4).

1. A permanent monument must be cemented in the wellbore. It must be labeled with the operators name, well name and number, legal location and lease number (see CFR 3162.6).
2. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
3. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
4. Pads must be leveled, dressed up by a maintainer, ripped and disked. The edge of the pads will be shaped to conform to the natural terrain.
5. Access roads must be leveled, waterbarred, ripped, disked and blocked off with earthen berms at the junction with the main road and at the entrance to the well pad. Waterbars should be spaced as shown below:

% Slopes	Spacing Interval
Less than 2%	200'
2 to 5%	150'
6 to 9 %	100'
10 to 15%	50'
Greater than 15%	30"

All water bars should divert water to the downhill side of the road.

6. All disturbed areas will be seeded between July 1 and September 15 with the prescribed seed mix (reseeding may be required).

AUG-25-1995 10:48 FROM HARKEN ENERGY

TO

FARMINGTON P.02

7. Notify Surfacing Managing Agency (SMA) seven (7) days prior to seeding so they may be present for that option.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

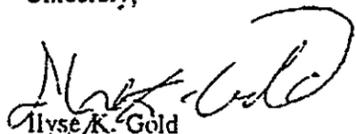
If the rehabilitation stipulations have been completed, please sign below and return this letter to:

Farmington Environmental Compliance Staff
1235 La Plata Highway
Farmington, NM 87401

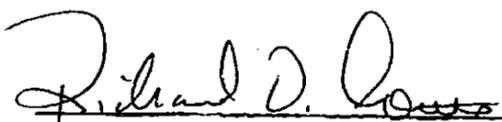
If the surface restoration has not yet been completed, notify us by Sundry Notice upon completion. We will schedule an inspection to check the well site after we receive notice from you that the vegetation has become established.

If you have any questions, please contact the Environmental Compliance Staff at (505) 599-8900.

Sincerely,


Alyse K. Gold
Chief, Branch of Lands, Cultural,
Recreation & Environmental Compliance

The above mentioned well has been abandoned and the required surface restoration stipulations completed.


Signed

12-3-95
Date

file 610

SOUTHWEST SEED INC
 13260 C.R. 29
 DOLONES, CO 81323
 (303) 565-8722

SEED FOR ALL NEEDS
 SEED CONSULTING SERVICE

PLS SEED MIXTURE ANALYSIS

ITEM	SPECIES / VARIETY	LOT #	ORIG	PURE	INERT	CROP	NEED	R/N	NDX	GERM	PLS %	DATE	PLS lbs	BULK #
1	INDIAN RICEGRASS KELPAR	04762	CR	59.93	0.01	0.00	0.06	NF	NF	98.00	97.93	08/15/95	5.00	6.13
2	GRASS W. DROPSEED SAND VNS	04693	ES	94.51	4.31	0.39	0.79	NF	NF	93.00	87.89	06/15/95	2.00	2.28
3	RYEGRASS: MILD-MAMMOTH VOLGA	RC 03340	CO	97.75	1.89	0.27	0.09	NF	NF	87.00	85.04	03/08/95	6.00	7.06
4	SHRUB: FOUR WING SALTBRUSH NM	04335	NM	95.60	4.16	0.04	0.00	NF	NF	63.00	60.35	04/14/95	4.00	6.63
													18	22.09

M05019

BLACK ROCK MIXTURE 4

BWR

SAND DROPSEED PACKAGED SEPERATELY INSIDE BAG

THE DATE IS 12/05/95
 THE TIME IS 16:19:39

file 610

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 Harken Southwest Corporation

3. Address and Telephone No.
 P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 760' FSL & 630' FWL
 Section 6-40N-29E

FORM APPROVED
 Budget Bureau No. 1004-0135
 Expires: March 31, 1993

5. Lease Designation and Serial No.
 NOG 8707-1141 (formerly 1116)

6. If Indian, Allottee or Tribe Name
 Navajo

7. If Unit or CA, Agreement Designation
 N/A

8. Well Name and No.
 Black Rock #4 P/W 610

9. API Well No.
 02-001-20184

10. Field and Pool, or Exploratory Area
 Black Rock

11. County or Parish, State
 Apache County, AZ

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject well was plugged and abandoned on November 21, 1995 as follows:

NOTE: BLM representative Ron Snow on location & approved deviation from original procedures.
 Tagged PBD @ 5163.6' KB. Plug #1 5164-4640' KB w/70 sxs Cl B cmt. Perf Hermosa @ 4034' KB w/4 JSPF - all shots fired. Set retainer @ 3965' KB. Pumped 39 sxs @ 400 psig, unstung from retainer and dumped 11 sxs of cmt on top of retainer. Plug #2 4034-3867' KB w/50 sxs cmt. Perf DeChelly @ 2560' KB w/4 JSPF. Pressured up to 1000 psi, bled off to 300 psig in 10 min - no rate. BLM rep Ron Snow required reperf of DeChelly @ 2132' KB to est rate. Perf DeChelly @ 2132' w/4 JSPF - all shots fired, press test to 1000 psi - no rate. Perf Chinle @ 988' KB w/4 JSPF - all shots fired. Plug #3 2613-2032' KB w/66 sxs cmt to cover entire DeChelly. Plug #4 1002-802' KB w/52 sxs cmt (200' inside & 200' outside csg-over Chinle). Perf 50' below surf csg @ 414' KB w/2 JSPF - all shots fired, established circ to surface. Plug #5 414' to surf w/108 sxs. Cemented in 5-1/2" and up annulus between 5-1/2" & 8-5/8" csg. Mixed up 7 additional sxs of cmt to fill to surf. Cut off csg below surface & weld on regulation subsurface P&A marker.

BLACK ROCK #4 PERMANENTLY ABANDONED 11/21/95

CC: State of Arizona
Navajo Nation & BIA

hcd 11-30-95

14. I hereby certify that the foregoing is true and correct

Signed R. Montgomery Title Production Administrator Date 11/28/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

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SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NOG-8707-1141

6. If Indian, Allottee or Tribe Name
NAVAJO

7. If Unit or CA. Agreement Designation
N/A P/N 610

8. Well Name and No.
BLACK ROCK #4

9. API Well No.
02-001-20184

10. Field and Pool, or Exploratory Area
BLACK ROCK

11. County or Parish, State
APACHE CO., AZ

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.
P. O. BOX 612007, DALLAS, TX 75261 (214) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
760' FSL & 630' FWL
Section 6, 40N-29E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
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	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Attached is Harken's proposed plugging procedure on the subject wellbore.
Abandonment operations will begin promptly after receipt of BLM approval.
Should any questions arise, please contact the undersigned at 214/753-6900.
Formerly the American Fuels Corp. #1 Navajo "C".



CC: State of Arizona
Navajo Nation
BIA-Gallup

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title Vice President, Operations Date 7/28/95

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
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*See Instruction on Reverse Side

BLACK ROCK #4
 (Formerly American Fuels Corp. #1-C Navajo)
 SW/4 - SECTION 6, T40N-R29E
 APACHE COUNTY, ARIZONA

P&A PROCEDURES

1. MIRU, Blow Down, Safety Meeting, Nd Wellhead, NU BOP. RU H2S Monitoring Equipment.
2. Release packer at 4900' and POH w/tbg; LD packer, and visually inspect tbg.
3. RIH with 2-7/8" tbg to 6159', balance 154 sacks Class "B" cement from 6159' to 4830', plug #1.
4. Pull uphole and balance plug #2 from 4830' to 4604' with 26 sakes of Class "B" cement.
5. PUH with tbg to 4594' and spot 4 lb/gal mud from 4594' to 4034', 13.3 bbls.
6. PUH with tbg to 4034' and balance 12 sacks Class "B" cement, plug #3 from 4034' to 3934'.
7. PUH with tbg to 3924' and spot 9 lb/gal mud from 3924' to 2560', 32.5 bbls. POH with tbg. RU perforator.
8. Perforate the DeChelly at 2560' with 2 shots. RIH with 2-7/8" tbg to 1550' and establish pump in rate. Balance 75 sacks Class "B" cement, plug #4 from 2560' to 2045'. (20% excess)
9. PUH with tbg to 2035' and pressure up to 500# for squeeze. Spot 9 lb/gal mud from 2035' to 1126' with 22 bbls. POH with tbg. RU perforators.
10. Perforate the Chinle at 1126' with 2 shots. RIH with 2-7/8" tbg to 1116' and establish pump in rate. Balance 15 sacks Class "B" cement, plug #5 from 1126' to 1026'. (25% excess)
11. PUH with tbg to 1016' and pressure up to 500% to squeeze perfs.
12. Spot 9 lb/gal mud from 1016' to 404' with 14.6 bbls. POH with tbg, RU perforators.
13. Perforate @ 404' with 2 shots. RIH with 2-7/8" tbg to 394' and balance 75 sacks, plug #6 from 394' to surface with returns circulated thru braden head. (50% excess)
14. ND BOP, cut off wellhead and csg 4' below ground level and install P&A surface marker.
15. Restore location.

Total Cement:

Plug #1	154 sacks
Plug #2	26 sacks
Plug #3	12 sacks
Plug #4	75 sacks
Plug #5	15 sacks
Plug #6	<u>75 sacks</u>
Total	357 sacks



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(June 1990)

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SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8707-1141

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Black Rock #4 **610**

9. API Well No.

02-001-20184

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Apache County, AZ

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Drawer 612007, Dallas, TX 75261 (817) 695-4900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

760' FSL & 630' FWL
Section 6-40N-29E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other **Shut-in status**
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject wellbore is currently under engineering evaluation for alternate uses prior to plugging.

Harken Southwest has recently started negotiations to purchase Dry Mesa Field, located north of Black Rock, and request approval to continue SI status for the subject wellbore.

Harken Southwest will perform an MIT upon approval of SI status. However, the subject wellbore has been depleted of hydrocarbons and would be utilized as an injector or disposal.



14. I hereby certify that the foregoing is true and correct.

Signed

(This space for Federal or State office use)

Title

Production Administrator

Date

7/5/94

Approved by

Conditions of approval, if any:

Title

Date

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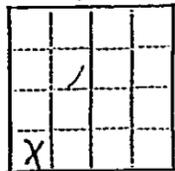
*See Instruction on Reverse Side

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO POROUS FORMATION			
Operator Chuska Energy Company		Address 315 N. Behrend, Farmington, N.M. 87401	
Federal, State or Indian Lease Number. or lessor's name if fee lease NOG-8702-1116; Blackrock		Well No. 4	Field None
Location 760 FSL, 630' FWL, Sec. 6, T40N, R29E		County Apache	
SEC-TWP-RGE or Block & Survey			
CASING AND TUBING DATA			
Name of string	Size	Length	Cement AZ OIL & GAS CONSERVATION COMMISSION
Surface Casing	8 5/8"	364'	110 sx to surface NOV 13 1989
Intermediate			
Long String	5 1/2"	6380'	280 sx (see attached notes) Name, Model and Depth of Tubing Packer
Tubing	2 7/8"	5850'	Baker "R-3"
Name of Top and Bottom of Injection Zone Mississippian Dolomite			
Is Injection through Tubing, Casing or Annulus? Tubing		Perforations or Open Hole? Perforation	Is this a new well Drilled for Disposal? No
List all Cement Squeeze Operations, Giving Interval and Number Sacks Cement Bridge Plug at 6193' (not squeezed) See completion prognosis			
Is Injection Zone Productive of Oil or Gas in This Field? No. (See attached notes)		Depth of Deepest Fresh Water Zone 2300'	Depth of Shallowest Productive Zone NA
Anticipated Daily Injection Volume (bbbls.) Minimum 0 Maximum 800		Open or Closed System? Closed	
Is Injection to be by Gravity or Pressure? Gravity and pressure		Approx. Pressure (Psi) 225	Source of Water to be Injected Paradox-Black Rock Field
Are there any other Salt Water Disposal Wells using this same Zone in this Field? No		If so name one such well below ---	
Name of Operator of Disposal Well in same zone ---		Lease Name ---	Well No. ---
Is this well so cased and completed that water can enter no other formation than the above set out injection zone? (As proposed)		Yes or No Yes	Have notices of this application been mailed or given to all operators within 1/4 mile of this injection well? Yes
List names and addresses of all operators within one-half (1/2) mile of this injection well: Chuska Energy Company, 315 N. Behrend, Farmington, N.M. 87401 Dry Mesa Corp., P. O. Box 5446, Farmington, N.M. 87499			
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Operations Manager of the Chuska Energy Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
INSTRUCTIONS: 1. Attach a complete full-scale electrical log of this well, if available. Indicate on electrical log, or by other evidence, the base of fresh water zones in this field. 2. Attach waivers from all operators within one-half (1/2) mile of injection well, or copies of letters notifying such operators of this application. Also attach waiver from surface owners of land on which the disposal well is located, or copy of letter from operator making this application notifying such surface owners of this application and requesting waivers. 3. Should all necessary waivers not accompany application, the State of Arizona Oil & Gas Conservation Commission shall hold such application for a period of ten (10) days from date of receipt. If, after said ten (10) day period, no protest or request for a hearing is received, the application will then be processed.		Signature Donald S. Barnes Date November 6, 1989	
Date approved 12/15/89 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION By [Signature]		STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Application To Dispose of Salt Water By Injection Into a Porous Formation File Two Copies	
Form No. 15			
Permit No. 810			

BLACK ROCK NO. 4 WATER PERMIT APPLICATION NOTES TO FORM 15

- (1) The long string was originally cemented with 280 sacks. Chuska will replace and recement this casing in accordance with our completion prognosis.
- (2) The subject well is not within the productive area of the Dry Mesa Mississippian Field. Chuska believes that the Mississippian is not an oil or gas reservoir in the area of the subject well. The result of this belief is that injection into the Black Rock No. 4 is not a secondary recovery operation, but only a produced water disposal operation.

Form 9-598b



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION DIVISION

Sec. 6
T. 40N
R. 29E
668R Mer.

1610
Pile here
Not P.A.
releases

INDIVIDUAL WELL RECORD

INDIAN LAND:

Date May 17, 1977

Ref. No. _____

Reservation Navajo Tribal State Arizona
N00-C-14-20-2250 County Apache
Lessee _____ Field Wildcat
Operator American Fuels Corp. District Farmington
Well No. 1 Navajo C Subdivision SW1/4
Location 760 feet from south and 630 feet from west lines of section

Drilling approved April 20, 19 73 Well elevation 5583 gl feet
Drilling commenced April 25, 19 73 Total depth 6534 feet
Drilling ceased _____, 19 _____ Initial production 42 BOPD + 10 MW
Completed for production _____, 19 _____ Gravity A. P. I. _____
Abandonment approved _____, 19 _____ Initial R. P. _____

Geologic Formations		Productive Horizons		
Surface	Lowest tested	Name	Depths	Contents
	<u>Pre-Cambrian</u>	<u>Information incomplete</u>		

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1973				Deg.						SIOW		
American Fuels defunct and lease given back to Navajo Tribe. Information?												
on producing zones and production potential incomplete.												

REMARKS Geol. tops: Upper Hermosa 3984 E.L. Mississippian 5744' E.L.
Upper Ismay 4654' " Dev. Uray 6364' "
Desert Creek 4780' " Pre Cambrian 6518' "
Molas 5640' "

U. S. Geological Survey
Conservation Division

Date Apr. 26, 1973

To: District Engineer, Farmington, N. M.

From: Office of the Regional/District

Geologist, Farmington, N. M.

sec. 6

T. 40 N

R. 29 E

G&SR Her.

Ariz. State

REPORT ON NOTICE OF INTENTION TO DRILL

Data from
District
Engineer

Lense No. N00-C-14-20-2250 Operator Amer. Fuels Corp.
 Well No. 1 Navajo "C" Subdivision SW1/4
 Location 760/S & 630/W
 Elevation 5583 gl Projected depth 5600
 Major objective fms Mississippian
 Proposed casing 8-5/8"-300'-225 ex. - 5-1/2"-TD-350 ex. + 100 ex.
 Remarks _____

Pertinent Fms

Name	Depth	
	Top	Base
Entrada)		
Navajo)	Surf.	783
Wingate)		
De Chelly	1893	2292
Hermosa	3634	4968
Miss.	5035	5328

1. Potential Oil and Gas Horizons

Hermosa Group
Mississippian

2. Fresh Water Sands

Entrada Ss De Chelly Ss
Navajo Ss
Wingate Ss

3. Other Mineral Bearing Formations
(Coal, Oil Shale, Potash, Etc.)

4. Possible Lost Circulation Zones

5. Other Horizons Which May Need Special
Mud, Casing or Cementing Programs

Possible Abnormal Pressure Zones and
Temperature Gradients

Competency of Beds at Proposed Casing

Form 9-334 C
(May 1963)

FARMINGTON CITY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
AMERICAN FUELS CORPORATION

3. ADDRESS OF OPERATOR
2917 Carlisle Blvd., NE, Albuquerque, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 760 ft. from the South Line
At proposed prod. zone 630 ft. from the West Line

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
10 mi. west of Teec Nos Pos

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, ST. 630' from the W. Line
16. NO. OF ACRES IN LEASE Approx. 1058

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA
19. PROPOSED DEPTH 5600' Miss.

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5583' GR

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24#	300'	225 SX
7-7/8"	5-1/2"	15.5#	5600'	350 SX + 100 SX

A 5600' Miss. test is proposed. All zones indicating potential will be tested. Colorado Plateau Well Logging Service will maintain a mud logging unit on well from 2500' to total depth. Gamma Ray, Sidewall Neutron, Caliper, Dual Induction and Acoustic Logs will be run from TD to 2500'.

- RECORD LESSEE
- D. OF O. ON FILE
- D. OF O. ATTACHED
- ROAD COVERAGE: *Indian*
- \$5,000 ATTACHED
- \$5,000 ON FILE
- LESSEE'S NATION-WIDE
- OPERATOR'S NATION-WIDE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *[Signature]* TITLE Secretary DATE 4-17-73

PERMIT NO. _____ APPROVAL DATE _____

APPROVED

APR 20 1973

E. J. McGRATH
DISTRICT ENGINEER

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.
O-C-14-20-2250

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Navajo "C"

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., W., OR BLK. AND SURVEY OR AREA
T40N, R29E CSWSW Section 6

12. COUNTY OR PARISH AND STATE
Apache Arizona

17. NO. OF ACRES ASSIGNED TO THIS WELL
W 1/2 SW 80 ac.

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START
4/18/73

RECEIVED

DATE APR 19 1973

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

06 03 1985

Well Area Manager, BLM, Farmington Resource Area, Farmington, New Mexico
Unplugged Well

Bureau of Indian Affairs, Real Property Management, Window Rock, AZ

Our office received a call from Lorraine Thomas (Tribal Compliance Office) regarding a dead cow in a pit. Lorraine informed us that there was no well sign on location and that the well was not plugged. Upon investigation with Herb Trumble (Petroleum Engineering Technician Supervisor) alleged well was found to be the No. 1 Navajo C, SW/4SW/4 sec. 6, T. 40 N., R. 29 E., on lease H00-C-14-ZU-2250.

The well status was found to be defunct by American Fuels and lease given back to the Navajo Tribe. Therefore the Bureau of Land Management has no jurisdiction over said well and any attempt to get the pit covered and the well plugged is the responsibility of the Tribe. If we can be of any assistance in this matter please contact AJ Gonzalez, Petroleum Engineering Technician Section at (505) 325-4572.

/s/ J. Stan Mckeo

cc:
BIA, Lorraine Thomas
NM-016:AGonzalez: 5/17/85

Delbert Jones
06-3-85
AG 06/3/85

Lease No.: N00-C-14-20-2250

Location: sec 5+6, T40N, R29E, Apache County, Arizona

Lease expired on 2-11-74 because of non production.

Well #1 Navajo C located in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec 6

T40N, R29E on lease N00-C-14-20-2250 is a shut in oil well. The operation of #1 Navajo C has been assumed by the Navajo Tribe.

Richard Bell

12-29-81

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator: AMERICAN FUELS CORPORATION Address: 2921 Carlisle, N.E., Albuquerque, N. M.

Federal, State or Indian Lease Number or name of lessor if fee lease: Navajo "C" Well Number: 1 Field & Reservoir: Black Rock Penn

Location: 760/SL, 630/WL County: Apache

Sec. TWP-Range or Block & Survey: Sec 6, T40N, R29E

Date spudded: 4-27-73 Date total depth reached: 18 My 73 Date completed, ready to produce: 5 Oct 73 Elevation (DP, REB, RT or Gr.): 5595 KB feet Elevation of casing hd. Range: 5583 feet

Total depth: 6534 P.R.T.D.: 6520 Single, dual or triple completion?: Single If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: 4922-5178 Rotary tools used (interval): Surface-TD Cable tools used (interval): none

Was this well directionally drilled?: no Was directional survey made?: no Was copy of directional survey filed?: Date filed:

Type of electrical or other logs run (check logs filed with the commission): I-ES, CDL, GR-N Date filed:

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Am't. pulled
Surface	12-1/4"	8-5/8"		364	110	none
Production	7-7/8"	5-1/2"	15.5 & 17	6380	280	none

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2-3/8" in.	4900 ft.	4900 ft.	none in.				

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZER RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
13 holes	1/2" jet	6140-6348	Acidized w. 1750 gal	6140-6348
27 holes	1/2" jet	4922-5416	A/6250 gal, F/17000 gal	4922-5416

INITIAL PRODUCTION

Date of first production: S.I. waiting on recompletion, request permission to temporarily abandon for 6 months. Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbls.	MCF	bbls.	" API (Corr)

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbls.	MCF	bbls.	

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the _____ agent of the AMERICAN FUELS CORPORATION (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

11 Dec 73
Date

Signature

D. R. Curry, Engr.

RECEIVED

DEC - 4 1973

Permit No. 610

O & G CON'S. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy

Form No. 4

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description
U. Hermosa	3984	4654	ls
U. Ismay	4654	4726	ls
L. Ismay	4726	4780	ls
Desert Creek	4780	4880	ls
Akah	4880	5090	ls
Barker Creek	5090	5340	ls
L. Hermosa	5340	5640	ls
Molas	5640	5744	sh
Miss	5744	6000	ls
Dev. Guray	6000	6064	ls
Dev. Elbert	6064	6236	ls & sd
Dev. McCracken	6236	6364	ls
Dev. Aneth	6364	6518	ls
Pre-Cambrian	6518	TD.	qtzite

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, casing used, time test open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach driller's log or other acceptable log of well.

This Well Completion or Recombination report and well log shall be filed with the State of Arizona Oil and Gas Conservation Commission not later than thirty days after project completion.

AMER. Fuels Navajo "C"-1
 Sec 6, T40N-R29E

C-1

The well site geologist logged samples from 370' to total depth and plotted lithologic descriptions on a strip log. Drilling time and mud gas shows are also plotted on this strip log. A copy of the log on a scale of 2" = 100' is attached to this report in two parts.

A mud logging unit was on location from 1750' to total depth. A log of the mud loggers work is being submitted separately from this report by Colorado Plateau Well Logging Company.

BIT RECORD

Bit No	1.	HTC	7 7/8"	X-3	377' - 1949' (1572')	32 hrs.
	2.	HTC		X-IC	1949' - 2556' (607')	14 1/2 hrs.
	3.	STC		RR F-3	2556' - 4325' (1769')	123 1/2 hrs.
	4.	HTC		RR J-33	4325' - 4610' (285')	28 hrs.
	5.	HTC		RR J-44	4610' - 5212' (602')	61 hrs.
	6.	STC		F-5	5212' - 6221' (1009')	114 3/4 hrs.
	7.	STC		F-5	6221' - 6299' (78')	13 hrs.
	8.	HTC		J-55	6299' - 6341' (42')	11 3/4 hrs.
	9.	STC		F-5	6341' - 6534' (193')	

FORMATION TOPS

Entrada - Surface	Akah - 4880'.
Carmel & Navajo - Behind Casing.	Barker Creek - 5090'.
Wingate - Casing set in top.	Lower Hermosa - 5340'.
Chinle - 1076'.	Molas - 5640'.
DeChelly - 2095'.	Mississippian - 5744'.
Organ Rock - 2510'.	Ouray - 6000'.
Cutler Evaps - 3178'.	Elbert - 6064'.
Hermosa - 3984'.	McCracken - 6236'.
Upper Ismay - 4654'.	Aneth - 6364'.
Lower Ismay - 4726'.	Pre Cambrian - 6518'.
Desert Creek - 4780'.	

STRUCTURE

	American Fuels B-1 9-40N-29E 5906'DF	American Fuels C-1 6-40N-29E 5593'DF	Atlantic 7-1 7-40N-29E 6019'DF
Upper Ismay	+1160	+939	+1379
Molas	+181? TD in Molas	-47	+659
Miss		-151	+553
Pre-G		-925	+249 TD in Pre-G

On top of the Upper Ismay the American Fuels C-1 is 221' low to the American Fuels B-1 and 440' low to the Atlantic 7-1.

WV
WAPACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (101 Days) October 9, 1973 6163' TD

Shut down. Waiting for orders.

NAVAJO "C" #1 (140 Days) October 9, 1973 6534' TD

Shut down. Waiting for orders.

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NAVAJO "AC" #1 (96 Days) October 4, 1973 6163' TD

Flowing on 5/8" choke TP 150 psi, making 27 bbls of water per hr. Flowed 11 Hrs.
Made 288 bbls. of water, 2 bbls of oil, 450 MCF. SION

October 5, 1973 (97 Days)

SI 12 hrs. SITP 1500 psi. Opened well on 5/8" choke. Sluid to surface in
18 minutes. Made 40 bbls of water first hr. 360 bbls of water second hr.,
26 bbls of water third hr. FTP 150 psi. SION

October 6 thru 10, 1973 (102 Days)

Shut in, awaiting orders, until further notice.

NAVAJO "C" #1 (135 Days) October 4, 1973 6534' TD

Opened well. SITP 400 psi. Started swabbing. FL 2600' FS. Swabbed down to 100'
of fluid in hole in 2 hrs. Continue to swab. Made 40 bbls of fluid, 15% oil cut.
SION.

October 5, 1973 (136 Days)

Opened well. SITP 440 psi. Started swabbing. FL 3500' FS. Gas increasing.

October 6 thru 10, 1973 (140 Days)

Shut in awaiting orders until further notice.

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"C"

WOK
APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (94 Days) October 2, 1973 6163' TD

Opened well. SITP 175 psi. Started swabbing. FL 1500' FS. Swabbed until 3:00 p.m. Recovered 90 bbls. of water. Well kicked off. Flowed until 2:00 a.m. (10/3/73) SI to bleed water off tank. Well SI 2 hrs. 1440 psi TP. Opened well on 5/8" choke. Flowing at 240 psi. Recovered 340 bbls of water.

October 3, 1973 (95 Days)

8:00 a.m. Flowing on 5/8" choke. 25 bbls per hr. 2% oil cut. Pressure dropped to 150 psi. 2:00 made 625 bbls of water; 16 bbls. of oil in 24 hrs.

October 4, 1973 (96 Days)

Still flowing on 5/8" choke at 150 psi making approx. 27 bbls. of water per hr. and 500 MCF gas.

NAVAJO "C" #1 (133 Days) October 2, 1973 6534' TD

Opened well, SITP 120 psi. Started swabbing. FL 1100' FS, Swabbed down 2600' FS. Held at 2600' FS for 3 Hrs. Swabbed down to 100' of fluid in hole. Recovered 100 bbls of fluid with 10% oil cut. SION

October 3, 1973 (134 Days)

Opened well. SITP 240 psi. Started swabbing. FL 2600' FS. Swabbed down to within 100' of fluid in hole in 2 hrs. Recovered 45 bbls of fluid at about 15% oil. SION

October 4, 1973 (135 Days)

Opened well. SITP 400 psi. FL 2600' FS. Swabbing --

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APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (93 Days) October 1, 1973 6163' TD

Left well open overnight on 1/2" Choke. 25 bbls of oil, 15 bbls of water at 100 psi. Rig up Western Company. Treat perfs: 5413', 14', & 16' with 2000 gals. of 15% NELSTA. Average pressure 3800 at 2-1/2 bbls per minute. ISDP 300, on vac. 1 minute. Moved RBP up to 5356' and set. Moved Packer to 5140' and set. Treated perfs from 5192' to 5338' with 2500 gals. 15% NELSTA and 22 ball sealers. Maximum psi 1750, average psi 1250. Average rate 5 bbls. per min. ISDP 650. Vacuum in 8 min. Released packer & BP, pulled out of hole, laid down Packer and BP. Changed Packer and went back in hole. Set Packer at 5020'. Took BOP and put on Well Head. Rigged up to swab. Swabbed back 25 bbls. water. FL 2300' FS. SION

NAVAJO "C" #1 (132 Days) October 1, 1973 6534' TD

Opened well after 42 Hrs. shut in. TP 440 psi. Started swabbing. FL 2800' FS. Swabbed down to 100' fluid in hole. Rigged up Western Company. Treated perfs. from 4922' to 5168' with 1000 gals. 15% NELSTA and 140 bbls. of fresh water with "D" emulsifying agent. Used 24 ball sealers. Max. psi 2650, average psi 2400 at 4.8 bbls. per min. ISDP 1150. 900 in 5 min. Rigged down Western Company. Flowed back 15 bbls. of water. Started swabbing. Swabbed back 65 bbls of water. FL 2600' FS and holding. SION

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WA
APACHE COUNTY, NEW MEXICO

NAVAJO "C" #1 (129 Days) September 28, 1973 6534' TD

Stuck swab in tubing. Cut Sand line, pull out of hole with tubing and check Packer. Start back in hole with tubing. SDON

September 29, 1973 (130 Days)

Finished going in hole w/tubing. Set Packer. Started swabbing. FL 2200' FS at 11:30 a.m. Swabbed down to 50' of fluid in hole. Recovered 40 bbls of water with 2% oil cut. SDON Waiting on orders.

September 30, 1973 (131 Days)

Shut down - waiting on orders.

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NAVAJO "AC" #1 (90 Days) September 28, 1973 6163' TD

O & G CONS. COMM.

Killed well w/100 bbls of water. Had 1300 lbs. of pressure on tubing; 1200 lbs. of pressure on casing. Set RBP at 5143', Packer at 5050' to straddle Akah perms. and swabbed well. Well kicked off at 3:45 p.m. Flowed well 2 hrs., made 25.86 bbls. of oil, no water. 10 min. SI pressure came up to 600 psi. SION

September 29, 1973 (91 Days)

Well SION (14-1/4 Hrs.) had 1300 psi on tubing. Opened well and flowed for 1 hr. Made 5 bbls. of oil, no water. Flowing at 220 psi on 1/2" Choke. Killed well with 30 bbls. of water, released Packer, lowered tubing, released BP; lowered BP and set at 5445'. Pulled Packer up to 5105' and set Packer. Rigged up Shlumberger wire line and perforate; 1 shot per ft. at 5192', 94', 96', 98', 5290', 92', 94', 96', 5304', 06', 08', 22', 24', 36', 37', 38', 5413', 14', 16'. Released Packer, run Packer to 5356' and set Packer. SION

September 30, 1963 (92 Days)

Opened well, had vacuum on tubing. Rigged up Western Company to treat perms: 5413', 14', and 16', with 500 gls. 15% DS40 Acid (NELSTA). Flushed with 32 bbls. of water. Maximum pressure 4200#; minimum pressure 3100#, Average pressure 3600#. Break down at 3000'. Injection rate 1-1/2 bbl. per minute. ISDP 300 vacuum 1 min. Rigged up to swab. Swabbed 1-1/2 Hrs. Recovered 40 bbls of luid. Well kicked off flowing 120 psi on 3/4" Choke. First hr. recovered 7 bbls. oil. Second hr. re-covered 3 bbls, Third Hr. flowing dry gas, 1.75 MCF. Left well flowing overnight on 1/2" Packer.

NAVAJO "C" #1 (127 Days) September 26, 1973

Swabbing Akah and Barker Creek together. ONSITP 80 lbs. Initial fluid level 2100' FS. Swabbing 6 runs per hr. 400' fluid entry per run, 3 to 5% oil cut. Very small amount of gas on each run. Swabbed 8 hrs. recovered approx. 80 bbls. of load water (220 bbls yet to recover) SDON.

September 27, 1973 (128 Days) September 27, 1973

ONSITP 80 lbs. Initial FL 2000' FS. Swabbed to 400' of fluid in hole per run. Swabbed 3 Hrs. No Change. Very slight show of gas plus 3 to 5% oil cut. Picked up Packer and lowered to Straddle Barker Creek alone. Initial FL 2000' FS. Second run found 700' fluid in hole. Slight show of gas. 5% oil cut. Swabbed down very small amount of fluid entry. Waited 1-1/2 Hrs., no appreciable fluid entry in hole. SDON

September 28, 1973 (129 Days) September 28, 1973

Today's plans are to come out of hole with RBP, Packer, and Tubing. Prep to reperforate. SDON

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WA
APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (87 Days) September 25, 1973 6163' TD

ONSITP 820 lbs. Killed well with 35 bbls. formation water. Moved Packer down to 5143' straddling Barker Creek perms. Swabbing to recover load and test. Covering up oil.

NAVAJO "C" #1 (125 Days) September 24, 1973 (Cont'd) 6534' TD

Total load to recover 300 bbls. Swabbing 6 runs per hr. Last 3 hrs. 400' of fluid in hole. SDON

September 25, 1973 (126 Days)

ONSITP 80 lbs. Initial fluid level 2100' FS. Swabbed down to 400' of fluid in hole. Swabbing 6 runs per hr. 3 to 5% oil cut. Very small amount of gas on each run.

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SEP 27 1973

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APACHE COUNTY, ARIZONA

NAVAJO "C" #1 (124 Days) September 23, 1973 6534' TD

Came out of hole and ran redressed packer to same place. Rigged up swab equipment. Swabbed 6 Hrs. Recovered est. 150 bbls. load water. Last 1-1/2 Hrs. started cutting up to 5% oil plus fair amount of gas. SDON

September 24, 1973 (125 Days)

Overnight SITP 80 lbs. Initial fluid level 1500' FS. Swabbed down to 3500' FS in 3 hrs. Swabbed est. 60 bbls. of fluid. Oil and gas cut unchanged, continuing to swab.

NAVAJO "AC" #1 (85 Days) September 23, 1973

Last 21-1/2 Hrs. recovered 55 bbls. of load water (all load recovered) plus 95 bbls formation water plus 102 bbls of oil. Gas estimated 100 to 200 MCF per day. Flowed on 50/64" Choke. FTP 100 lbs. next 7 Hrs. Made 50 bbls. of oil plus 32 bbls of water. Left flowing overnight on 50/64" choke.

September 24, 1973 (85 Days)

8:15 a.m. Discovered tank overflowing. Overnight flow (14 Hrs.) 168 bbls. of water plus undetermined amount of oil. Lost at least 70 bbls. of oil down canyon. Bleeding off water and continuing to flow to test. Gas appears to be increasing..

RECEIVED

SEP 27 1973

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APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (82 Days) September 20, 1973 6163' TD

Could not get water truck out until 4:00 p.m. Sent Pulling Unit Crew in early.
SDON

September 21, 1973 (83 Days)

Had small amount of pressure on tubing. Tried to circulate. Could not catch up. RBP set at 5235'. Set Packer at 5144' (straddling Barker Creek perfs 5166' to 96'). Acidized w/600 gals 15% NELSTA using 5 Ball Sealers. Break down pressure 1800. Average rate 4 BPM, Max. Pressure 3500. Formation 3100 lbs. to 1200 lbs. at 3-1/2 BPM after 3 bbls of acid on formation. ISDP 600, 5 min. SITP "O", no ball action observed. Picked up RBP and reset at 5148'. Pulled 4 jts. and reset Packer at 5024' straddling Akah perfs; 5064' to 5108'. Acidized with 1200 gals 15% NELSTA. Broke down with water with 1500 lbs. dropped 10 ball sealers in two (2) stages. No ball action observed. Average rate 4.6 BPM. ISDP 400 lbs. 10 min SITP 100 lbs. Picked up RBP and reset at 5235'; reset Packer at 5148', straddling all perfs. Total load to recover 130 bbls. Swabbed one hour, recovered 30 bbls. of load water.

September 22, 1973 (84 Days)

Swabbed two (2) runs. Well kicked off flowing est. 15 to 20 bbls load water per hr. Good Gas. Flowed water and gas 3 Hrs. Started cutting oil. Turned production to test tank. Flowed 1-1/2 Hrs. No guage. SION

NAVAJO "C" #1 (121 Days) September 20, 1973 6534' TD

Waited on water truck 9 Hrs. Fracture treated Barker Creek and Akah perfs together down 5-1/2" casing with 17,000 gals. treated water plus 24,300 lbs. of 20/40 sand averaging 1.4 lbs. per gal. Breakdown pressure 2500 lbs.; max. pressure 4000#. Average Pressure 3000#. Average injection rate 24 bbls. per minute. Used 16 ball sealers in 2 stages. Observed excellent ball action in both stages. Screened out on last 35 bbls of flush ISDP 4000. 15 minute SIP 700 lbs. SION

September 21, 1973 (122 Days)

Went in hole with open ended tubing to circulate out sand. Circulated sand with trace oil and BS. Made trip to pick up Packer and RBP. Went in hole to straddle all perfs. and swab back load. Swabbed 1 hr. packer failed. Total load to recover 531 bbls of water. Came out of hole to service packer.

RECEIVED

APACHE COUNTY, ARIZONA

NAVAJO "C" #1 (123 Days) September 22, 1973 6534' TD

Attempted to come out of hole. Shut down because of high wind. ^{D & G} ~~Unit down~~
several hrs. waiting on repair parts (Tubing tongs).

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WA
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NAVAJO "AC" #1 September 19, 1973 (81 Days) 6163' TD

Finished going in hole. Shut RBP at 5235' KB. Spotted two bbls of acid. Pulled 3 jts. and set Packer at 5144'. Pumped 3 bbls of acid and casing circulated. Attempted to reset Packer, unsuccessfully. Pulled 1 jt. ran 14' of subs., attempted to set Packer at 5127', unsuccessfully. Pulled subs and 3 more jts. straddling all perforations. Tested Packer, held O.K. Attempted to breakdown perfs to 4000 # for 30 minutes. Respotted acid, attempted to breakdown perfs to 5000# for 30 min. Did not break. Circulated hole free of acid and SDON.

NAVAJO "C" #1 September 19, 1973 (120 Days) 6534' TD

SITP 60 psi. Initial fluid level 1800' FS. Swabbed 3 runs per hr. 500' of fluid in hole on each run. Made 24 bbls. of fluid in 8 hrs. Trace of oil, slight show of gas. SDON Rigging up to Frac.

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NAVAJO "AC" #1 September 19, 1973 (81 Days) 6163' TD

Finished going in hole. Shut RBP at 5235' KB. Spotted two bbls of acid. Pulled 3 jts. and set Packer at 5144'. Pumped 3 bbls of acid and casing circulated. Attempted to reset Packer, unsuccessfully. Pulled 1 jt. ran 14' of subs., attempted to set Packer at 5127', unsuccessfully. Pulled subs and 3 more jts. straddling all perforations. Tested Packer, held O.K. Attempted to breakdown perfs to 4000 # for 30 minutes. Respotted acid, attempted to breakdown perfs to 5000# for 30 min. Did not break. Circulated hole free of acid and SDON.

NAVAJO "C" #1 September 19, 1973 (120 Days) 6534' TD

SITP 60 psi. Initial fluid level 1800' FS. Swabbed 3 runs per hr. 500' of fluid in hole on each run. Made 24 bbls. of fluid in 8 hrs. Trace of oil, slight show of gas. SDON Rigging up to Frac.

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APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 September 18, 1973 (80 Days) 6163' TD

WOT

NAVAJO "C" #1 September 17, 1973 (118 Days) 6534' TD

Ran a redressed RBP, Packer, and tubing. Set RBP at 5021' Pulled 2 joints and set Packer at 4959'. SDON

September 18, 1973 (119 Days) 6534' TD

Rigged up Western Company Acid Truck. Loaded annulus. Bull-headed 19 bbls. of water. A head of 1250 gals. 15% NELSTA. Break down pressure 2500. Broke 2000 when acid hit. Dropped 10 balls (7 holes open). Had excellent ball action (1000 lbs. increase). Average treating pressure 2800. Average injection 4.4 bbls. a minute. ISDP 900. 15 minutes SIP 700. Bled to pit. Picked up RBP and reset 4960'. Pulled two joints and set packer at 4898'. Broke down with water at 3000 lbs. Acidized with 750 gals. 15% NELSTA. Dropped 6 balls (3 holes open) after 1st 200 gals acid. Had 800 lbs. break before acid hit formation; 200 lbs. break when acid hit. No ball action. Average 3.3 bbls. a minute. ISDP 1000, 15 minutes SIP 700 lbs. Flowed back to pit and rigged up to swab. Initial fluid level 300' FS.

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NAVAJO "C" #1 September 14, 1973 (115 Days) 6534' TD

Ran Packer and tubing to 5360'. Swabbed lower Hermosa perfs; 5412' to 16'. Swabbed down in 2 Hrs. Fluid level swabbed from 1500' FS to feeding nipple. No fluid entering hole. Recovered 30 bbls. of fluid. No show gas. Released packer, picked up RBP and reset at 5370' KB. Pulled two joints and packer at 5300' to test perfs 5322' to 26'. Initial fluid level 2100' FS. Second run found fluid level at 4000'. Swabbed down, no fluid entry in hole. Picked up RBP and reset at 5300'. Pulled 2 joints and reset packer at 5240'. Straddling perfs at 5250' to 5272'. Initial fluid level 2100' FS. Swabbed down to 2800' FS. Recovered 76 bbls. of fluid in 4 hrs. SDON

September 15, 1973 (116 Days) 6534' TD

Initial fluid level 2500'. ONSITP 80 psi. Swabbed 3 Hrs. Recovered 65 bbls. of water. Gasing slightly during swab runs. Fluid level varied between 1400' and 3000'. ~~Casing~~ kicked off and flowed good show gas. SI casing side pressure increased to 400# in 30 minutes. Killed well with 49 bbls. of water down casing. Picked up RBP and reset at 5270'. Pulled 2 joints and reset packer at 5210'. Swabbed 2 runs recovering 17 bbls. of fluid. Kicked off and flowed with small amount of gas. Left flowing overnight on open choke.

September 16, 1973 (117 Days) 6534' TD

FTP 40 psi. Flowing gas only. Est. 150 to 200 mcf per day. Last 19 Hrs. made 79 bbls of fluid (probably water from lower perfs). Left flowing overnight on open choke. No unit time today.

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APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 September 13, 1973 (75 Days) 6163' TD

Moved Allen Construction Pulling Unit to location. Left on "B" Location overnight waiting for road repair.

September 14, 1973 (76 Days)

Moved in unit, rigged up and preped to run cased hole logs.

NAVAJO "C" #1 September 13, 1973 (114 Days) 6534' TD

Moved in and rigged up AZTEC Pulling. SITP 750 psi. Blew well down and killed with 70 bbls. of water. Released Baker Model R Packer. Came out of hole with tubing and Packer. SION Took Packer in to be re-dressed.

September 14, 1973 (115 Days)

Went in hole with re-dressed Packer and tubing. Set at 5360' to test lowest perms in lower Hermosa Formation..

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DAILY DRILLING REPORT

APACHE COUNTY, ARIZONA

NAVAJO "M" #1 August 10, 1973 (133 Days) 5832' TD
SITP 50 psi. Started swabbing. Found fluid level 1000' FS. Well kicked off
and started flowing fresh water and load water. After recovery of load water,
well continued to flow fresh water at rate of 20 bbls. per hr. with substantial
flow of gas. Unable to measure gas because of large volume of water. Flowed
5 Hrs.. Water rate did not decrease. SION

NAVAJO "M" #1 August 11, 1973 (134 Days) 5832' TD
Rigged up kill truck. Killed well and unseated packer. Picked up RBP. Straddled
Zone C, 4906' to 4920'. Started swabbing. Swabbed fresh water at rate of 15 to
20 bbls per hr. Fair show of gas. Fluid level did not drop below surface. Un-
seated packer and picked up RBP. Straddled Zone B, perforations 5008' to 5012'.
Pulled swab 3 times. Well kicked off flowing. Flowing fresh water and gas.
Flowing at rate of 20 bbls. per Hr. Flowed 4 Hrs. Rate did not decrease. SION

NAVAJO "M" #1 August 12, 1973 (135 Days) 5832' TD
Picked up RBP, Came out of hole to change out RBP. Went back in hole. RBP
would not set. Trip tubing and went back in hole to straddle Zone A. Started
swabbing. Swabbed 1-1/2 Hr. Fluid level dropping. Well swabbing down. SDON
Prepped to swab to test Zone A.

NAVAJO "C" #1 August 10 thru 12, 1973 (110 Days) 6534' TD
Shut in.

NAVAJO "AC" #1 August 10 thru 13, 1973 (43 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 August 10 thru 13, 1973 (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

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DAILY DRILLING REPORT

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APACHE COUNTY, ARIZONA

NAVAJO "M" #1 August 9, 1973 (132 Days) 5832' TD
Perforations: One (1) Shot at each of the following depths:

Zone A - 5078', 80', 81', 82', 84'

Zone B - 5008', 09', 10', 11', 12'

Zone C - 4906', 07', 08', 09', 16', 18', 20'

Went in hole with Baker RBP and Model "R" Packer. Straddled Zone A, could not get packer to set. Reset packer between Zones B & C to straddle Zones A & B. Pressure tubing in formation started taking fluid at 1000 psi. Treated zones A & B with 2000 gals. of 15% NELST Acid. IP 1700 psi at 3 BPM. Dropped 6 RCM ball sealers after 1000 gals, treating pressure decreased to 1000# on 1st 1000 stage and increased to 1800 psi when 6 balls hit formation. Dropped 5 ball sealers after 1500 and pressure increased to 3300 psi at 1 and 1½ BPM when 2nd stage balls hit formation. Treating pressure decreased from 3300 psi to 700 psi at 7.3 BPM and increased to 1400 psi at 4 BPM. Final treating pressure 1400 psi. ISIP 300 psi after 5 minutes 100 psi. Bled back 1/2 bbl. LW, released packer. Picked up RBP and straddled Zone C. Spotted acid. Formation taking fluid at 1800 psi. Acidized w/1000 gals. 15% NELST. Injection pressure 2500 psi at 1/2 BPM. Recovered 3 ball sealers after 650 gals. Pressure increased to 2900 psi, when ball sealers hit formation. Final treatment 2900 psi at 2 BPM. ISDP 2700 psi after 10 minutes SIP 2550. Bled tubing pressure to 0 in 5 minutes. Total load 105 BLW. Released packer, circulated 30 bbls. of water down annulus. Reset RBP at 5108' and packer at 4889'. Rigged up and started to swab. Swabbed 37.5 bbls. of load water. Decreasing fluid level to surface to 1000' FS. SDON
Note: Total load left to be recovered, 67 bbls.

NAVAJO "C" #1 August 9, 1973 (107 Days) 6534' TD
27 Hrs. SITP; 330 psi.

NAVAJO "B" #1 August 9, 1973 (189 Days) 5865' TD
SITP 1550psi. Flowed well to FTP 1000 psi after 2-1/2 Hrs. Shut well in SITP after 10 Minutes 1550 psi..

NAVAJO "AC" #1 August 10, 1973 (40 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 August 10, 1973 (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

DAILY DRILLING REPORT

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APACHE COUNTY, ARIZONA

NAVAJO "M" #1 August 8, 1973 (131 Days) 5832' TD
Set cement retainer 5195' KB. Tested tubing to 3000 psi. Tested O.K.
Pressure 5-1/2 annulus at 2000 psi. Pumped into perfs at 4 BPM at
1500 psi. Shut down and well went on vacuum. Squeezed with 150 Sxs.
of Class "A" Cement. Pumped 135 Sxs. below retainer. Maximum squeeze
pressure 2500 psi. After 5 minutes. Pressure stabilized at 2000 psi.
Pulled out of retainer and reversed 3 bbls. of slurry out of hole.
Came out of hole with tubing and setting tools. Rigged up Welex and
attempted to perforate new zones but had two mis-fires. SDON

August 9, 1973 (132 Days) 5832' TD
Will perf this a.m. and start acidizing.

NAVAJO "C" #1 August 8, 1973 (106 Days) 6534' TD
Flowing gas at rate TSTM. Tubing Pressure 50 psi. Will shut in to
pressure up and unload liquids out of tubing.

NAVAJO "AC" #1 August 9, 1973 (39 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 August 9, 1973 (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

DAILY DRILLING REPORT

APACHE COUNTY, ARIZONA

NAVAJO "M" #1 August 7, 1973 (130 Days) 5832' TD
Released Packer and picked up RBP. Came out of hole. Failed to
retrieve RBP. Went in hole. Picked up RBP. Came out of hole. Laid
down tools. Rigged up Welex. Set Cast iron DBP at 5307' KB. Went
in hole w/Baker 5-1/2" drillable cement retainer for 2-3/8"OD tubing.
Preped to squeeze cement. Shut down overnight.

NAVAJO "C" #1 August 7, 1973 (105 Days) 6534' TD
12:30 p.m. FTP 50# after opening well on 1/2" choke at 12:00 noon, Aug. 7
Immediate rate 292 MCFPD. Increased to 340 MCFPD in 4 hours. Maintained
rate at 340 MCFPD in 2 hrs. Well started loading up. Gas too small to
measure after 1 Hr. During next 16 Hrs., well made 2 gas heads. Rate
varied from 0 to 264 MCFPD. After 2 Hrs., set choke on 10/64". Left flow-
ing at 75 MCFPD. Well was flowing overnight. Well made 26 bbls. of fluid
in 26 Hrs. Estimated oil cut 20%.

NAVAJO "AC" #1 August 8, 1973 (38 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 August 8, 1973 (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

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DAY DRILLING REPORT

APACHE COUNTY, ARIZONA

NAVAJO "M" #1 (August 6, 1973) (129 Days) 5832' TD
SITP 750 psi in 15 Hrs. Bled gas off. 3.4 bbls. of fluid. Started swabbing
Initial fluid level 4000' FS. Swabbed 35.4 bbls of fluid in 7 Hrs. Cut 10 to
50% oil. Recovered 11.2 bbls of oil in 7 Hrs. Last hour swabbed 5 bbls at
cut 50% oil. Now coming out of the hole. Prep to squeeze off perfs, 5268' to 81

NAVAJO "C" #1 (August 6, 1973) (104 Days) 6534' TD
11:30 a.m. - FTP 80 psi. Flow rate 292 MCFPD on 24/64" Choke. Recovered
38.4 bbls of water, 1.2 bbls of oil in 21 Hrs. Opened well to flow on 32/64"
Choke. Left flowing overnight.

NAVAJO "AC" #1 (August 7, 1973) (37 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 (August 7, 1973) (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

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DAILY DRILLING REPORT

APACHE COUNTY, ARIZONA

NAVAJO "C" #1 (August 3, 1973) (101 Days) 6534' TD
Flowing tubing Pressure 360 psi. Flowing at the rate of 392 MCF per day
on 13/64" Choke. Left flowing overnight.

August 4, 1973 (102 Days) 6534' TD
FTP 250 psi. Flowed at rate of 353 MCF per day, on 16/64" Choke. Recovered
32 bbls. of water. Opened on 20/64" Choke. Left flowing overnight.

August 5, 1973 (103 Days) 6534' TD
FTP 160 psi. Flowed at rate of 360 MCF per day, 20/64" choke. Recovered
4 bbls of oil and 48 bbls of water in 26-1/2 Hrs. Opened to 20/64" Choke
and left flowing overnight.

NAVAJO "M" #1 (August 3, 1973) (128 Days) 5832' TD
Perfs 5263' to 81'. Flowed from 5:30 to 1:00 p.m. by heads. Mostly gas.
Recovered 33 bbls of fluid. Oil cut 0 to 50%. Shut in overnight.

August 4, 1973 (129 Days) 5832' TD
Bled pressure off tubing in 5 minutes. Began to swab. Initial fluid level
3000' from surface. Swabbed down to 3500' in 2-1/2 Hrs. Swabbed 100% water
with no shows. Swabbed 34 bbls in 3 hrs. 100% water. Moved RBP to set between
upper and lower pers, shutting off last three perfs (5448, 46', 44'). Swabbed
5 Hrs. Recovered 25 bbls of fluid. Oil cut 30 to 50%. Initial fluid level
3500' from surface. Fluid heavily gas cut. Making 2 runs per hr. Shut down
overnight.

August 5, 1973 (130 Days) 5832' TD
SITP 900 psi in 14 hrs. Bled gas down in 1 Hr. Began swabbing. Initial fluid
level 3000' from surface. Recovered 63.5 bbls of fluid in 8 Hrs. Oil cut 20
to 50%. Fluid heavily gas cut. Final fluid level 3800'. Shut down overnight.

NAVAJO "AC" #1 (August 6, 1973) (36 Days) 6163' TD
Waiting on Rotary Rig to move off.

NAVAJO "G" #1 (August 6, 1973) (Estimated TD 7800' Devonian)
Waiting for Rotary Rig to move in and rig up.

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NAVAJO "M-1" August 2, 1973 (127 Days) 5832' TD
Initial fluid level 2000' from surface. Swabbed 5 runs - well
kicked off flowing. Flowed 45 minutes 100% water to pit then
started cutting oil up to 70% oil cut. Shut in rigged lines
to test tank. Swabbed 2 runs and kicked off flowing in 4 hours
recovered 122 bbls lode water, a trace oil, very slight show of
gas. Flowing by heads left flowing overnight with watchman
taking hourly gauges.

NAVAJO "C-1" August 2, 1973 (100 Days) 6534' TD
Flowing tubing pressure 380. Last 29 hours made no oil, 32 bbls
water. Gas rate stabilized at 285 MCF per day. Opened flow on
a 13/64 inch choke.

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APACHE COUNTY, ARIZONA

NAVAJO "AC" #1 (12 days)

July 13: Drlg. 4889'. Lime & sh., hard sand. Bit#2, 7 7/8", F-3 in 2825'. Drlg. 2064' in 161 3/4 hrs.. Weight 40 to 45,000 RPM 58, pressure 1,000#, strokes 48. Vis. 43, MW 9.2 plus, WL 6.8, Ph. 10.0 Salt 300, 23 1/4 Drlg., 1/2 hr. rig service, Clean out and clean out sh. pit 1/4 hr. rig repair.

NAVAJO "M" #1 (109 days)

July 13, 2:30pm FTP "O". Well had headed twice overnight. Made 3.5 bbls. oil, 6.5 bbls. of water last 21 hrs. Shut in well at 3:00pm to record build up.

NAVAJO "B" #1 (162 days)

July 13: 4:30 pm FTP 170. made 8 bbls. of oil plus 23 bbls. water last 24 1/2 hrs. 50 minutes SIP, 850#. Bled all water to pit. Opened to flow on 36/64" choke. Prep. to install separator.

NAVAJO "C" #1 (83 days)

July 13: Prep. to install production unit.

NAVAJO "E" ((53 days)

July 13: Moved in and rigged up pulling unit. Will run cased hole logs 9:00 a.m. July 13, 1973.

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NAVAJO "AC" #1 (3 Days) APACHE COUNTY, ARIZONA
Projected TD 6500' (Mesa Drillers)
July 4, 1973

Drlg. 666', Sand & Sh. Bit #1, 7-7/8", J-22, 535', 131' in 1-3/4 Hrs.
Bit Weight 10 to 25,000 lbs. RPM 56, Pump Pressure 100, Drlg. w/water,
1-3/4 Hrs. Drlg., 3 Hrs. running casing and cementing same. 17-3/4 Hrs.
WOC, 1-1/2 Hrs. drlg. 90' Hard Cement.

CASING REPORT:

Ran 12 Joints of 8-5/8", 24 lbs. used casing. Total 506'. Set 13' below
RDB. Setting depth 519'. Cemented with 275 Sacks of regular cement, 3% cc.
Plugged down at 9 a.m. 7/3/73. Cement circulated.

July 5, 1973

Drlg. 1733', Sand & Sh., Bit #1, 7-7/8, J-22, In 535', Still Drlg.
1198' in 25-1/2 Hrs., Bit Weight 30,000 lbs., RPM 62, Pressure 600,
Drlg. with water. 24 Hrs. Drlg.

NAVAJO "O" #1 (23 Days)

Aztec Well Services

TD 3950'

July 4, 1973 - Shut down for Holiday

July 5, 1973 (24 Days)

Moving out rotary rig; moving in Aztec Pulling Unit #65 for completion.

NAVAJO "M" #1 (101 Days)

TD 5832'

July 4, 1973 - SITP 1100, flowed gas heads off in 30 minutes. Flowed load
water and oil to test tank for 3 hrs. SI 2 Hrs. Hooked up test separator.
Produced gas at undetermined rate plus 30 bbls of fluid in 2 hrs. Oil cut
50 to 70%. Shut in overnight.

July 5th 1973 (102 days) - SITP 1400. Flowed gas head off in 1/2 Hr.
Produced 130 bbls. of fluid in 8 hrs. 50 to 70% oil cut. Flowing by heads.
Flowing tubing pressure 50 to 300 lbs. Est. gas rate 200 mcf per day.

NAVAJO "C" #1 (75 Days) TD6534'

July 5, 1973

SITP 1475

SUNDAY, JULY 1, 1973
SITP 1350 psi, killed well with brine rigged down blowout preventors,
nipped up well head for final completion. Rigged up to swab, ran swab,
three times, well kicked off and flowed at max. rate for separator (not
measured) and flowed wells to pits until all load water recovered well
shut in, waiting on 4 pt. back pressure test for final completion reports.
Rigged down pulling unit and moved to Navajo "M" 1.
Final test until 4-point back pressure test and other required state and
federal tests are available.

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June 28, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

Swabbing

6534' TD

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June 27, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534' TD

Picked up RBP set at 5465'.
Pulling unit engine went out.
Repairing engine. Should be comple-
ted today. Start swabbing in morn-
ing.

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June 26, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
6534' TD

Preparing to Swab Test
Paradox Formation.

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June 25, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
6534' TD

JUNE 21:
Devonian McCracken perfs. 6394-6348', Spotted 2 bbls. acid on perfs. pulled 2 jts, set packer at 6271', broke dwn at 4000 lbs., acidized all perfs. with 1000 gallons 15% NELSTA, broke to 1700 lbs. at 3 bbls. per min. IFDP 500 lbs. in 10 min. shut in pressure 0, swabbed at 3 1/2 hrs, initial fluid flow level 800 FS, final fluid level 1500', recovered 40 bbls. acid load water, some acid gas, shut down over night.

JUNE 22
Overnight fluid level 2900' fs, swabbed at 5 hours, recovered 4 to 5 bbls. fluid per run, made 15 runs, fluid level maintained between 2,000 and 3000' throughout, recovered brown water with no show oil or gas, have recovered 200% load, sampled water RW for Devonian McCracken Zone 0.083 at 76 degrees F, came out of hole, shut down overnight.

JUNE 23
Rigged up S-jay, wireline unit and set Baker P-1 cast iron bridge plug at 6193'. NOTE: All Dresser Atlas logs on this well were run with ground level datum, despite what log says this makes all log depths 12 feet deeper, the S-jay correlation log was ground level C and was so noted. The following perfs were made 1 Hyper-jet (045") at each of following depths: using Dresser Atlas at gamma-r-n/collar log:

1. Devonian Elbert Zone-6140, 6142, 5257, 5259, 5250 (6)
2. Lower Hermosa Zone: 5412, 5414, 5416 (3)
3. Barker Creek Zone: 5168, 5170, 5172, 5176, 5178 (5)
5250, 5252, 5254,

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NAVAJO"C" continued

5270,5272 (5),
5322,5324,5326 (3)
5412,5414,5416,(3)

Baker Retrievable Bridge Plug and Baker model R packer were run on prod. tubing the RVP was set at 6170' gl, packer was swung at 6164' shut down overnight.

JUNE 24:

Rigged up Weston Co. acid truck and spotted 2 bbls. over perfs., pulled 2 jts. tubing, set packer at 6102' broke down Devonian Elbert perfs. 6140'-6159' at 1500 lbs. and acidized with 750 gal. 15% NELSTA at 4, 4.4 BPM at 2600 Lbs. treating pressure, IFBP 1000 lbs., 15 min. SIP 425 lbs. flowed to pit, died in 5 min. picked up RBP pulled 22 jts. and reset RBP at 5425 gl, spotted 2 bbls. over perfs. pulled 1 jt. and set packer at 5394' gl, acidized lower Hermosa perfs 5412'-5416' with 750 gal. 15% NELSTA, pressure 1600, broke to 1200 increased rate to 4.4 BPM, treated at 2700 lbs., ISDP 1100, 15 min. SIP 850, bled to 0, 10 minutes picked up RBP pulled 2 jts. and reset at 5363' gl, spotted 2 bbls. over perfs. upper Hermosa, 5322 to 5326 close and pulled 2 more jts., set packer at 5300 gl, broke down formation at 2500 lbs., acidized with 750 gal. NELSTA, treated at 2600 at 4.7 BPM ISDP 800 15 min. SIP 300. Perfs. 5250 to 5272 Barker Creek Zone picked up RBP pulled 2 jts. and reset at 5300 gl, spotted 2 bbls. acid, pulled 2 jts. and set packer at 5239' gl, broke down at 1800 lbs., treated at 2600 lbs. at 4.5 BPM using 1250 gal 15% NELSTA ISBP 800, 8 min. SIP vacuum, bled dwn in 5 min. Perfs 5168' to 5178' Barker Creek Zone picked up RBP pulled, 1 jt. and reset at 5208' gl, spotted 2 bbls. acid, pulled 2 more jts. and set packer at 5146' gl, broke down 2500 lbs. acidized perfs. at 1500 gal 15% NELSTA, treating pressure 2750 lb

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NAVAJO "C" continued

at 3.5 BPM, ISDP 1800 15 min. SIP 650
Total load to recover from all 5
stages 120 bbls. moved packer and
RBP to test bottom perfs. Devonian
Elbert 6140'-6159' perfs., started
swabbing 6 pm, swabbed 1 hr. initial
fluid level 300 ft. fs, swabbed down
to 2500' from surface a-1 water, Shut
down overnight.

JUNE 25:
Overnight fluid level 2500 fs, swabb-
ed 1 1/2 hr., fluid level drop on
each run, estimated load to recover
90 bbls., very small show acid gas at
start, will swabb until dark.

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June 22, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534' TD

June 19, 1973

Moved in and rigged up Aztec Pulling Unit #65. Waiting on well head. Shut down overnight.

June 20, 1973

Perforated Devonian McCracken Zone with Dresser Atlas 0.45" Jumbo Jets using a casing gun as follows:

6294'
6296'
6298'
6336'
6338'
6346'
6348'

(Seven (7) Shots)

Picked up and tallied 154 Jts. of 4.7 lbs. per ft. 2-3/8" EUE K-55 Tubing and swung tail pipe at 6338'. Waited on water truck. Spotted 2 bbls of acid over perfs. Pulled two jts. of tubing and set packer at 6271'. Broke down formation at 4000#. Acidized all perfs and one stage with 1000 gals. 15% Nelsta. Broke to 1700# and treated at 3bbls a minute ISDP 20#. 10 Minute shut in pressure "0". Swabbed 3-1/2 Hrs. initial fluid level 800' FS. Final fluid level 1500' FS. Recovered 40 bbls. of load water and acid water, with some acid gas. Shut down overnight.

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WA
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(505) 345-3507

June 20, 1973

DAILY DRILLING REPORTS

NAVAJO "C" #1

6534' TD

Moving in Aztec Pulling Unit,
Prep. to initiate completion.

NAVAJO "B" #1

5865' TD

Shut in, waiting on tank
batteries.

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JUN 22 1973

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2921 Carlisle Blvd., N.E. Albuquerque, New Mexico 87110
(505) 345-3507

June 19, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
6534' TD

Moving in Aztec Pulling
Unit, Prep. to initiate
Completion.

NAVAJO "B" #1
5865' TD

Shut in, waiting on tank
batteries.

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JUN 20 1973
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W

6/20

6/19

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(505) 345-3507

June 19, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534' TD

Moving in Aztec Pulling
Unit, Prep. to initiate
Completion.

NAVAJO "B" #1

5865' TD

Shut in, waiting on tank
batteries.

6/20

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June 15, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
6534' TD

Same June 18, 73

Waiting on pulling unit.
Prep. to complete.

NAVAJO "B" #1
5865' TD

Shut in, waiting on tank
batteries.

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JUN 16 1973
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June 11, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534' TD

Shut in, waiting on re-
stimulation.

NAVAJO "B" #1

5865' TD

Shut in, waiting on tank
batteries.

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2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

June 5, 1973

DAILY DRILLING REPORTS

NAVAJO "C" #1

6534' TD

Shut in, waiting on re-
stimulation

~~NAVAJO "B" #1~~

~~5865' TD~~

~~Shut in, waiting on tank
batteries~~

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May 30, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534: TD

Shut in, waiting on
re-stimulation

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MAY 31 1973

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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507
May 25, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

6534' TD

Cased Hole Logs being run.

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MAY 29 1973

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WA
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507
May 23, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
6534' TD

Cased Hole Logs to be
run today.

610
RECEIVED
MAY 29 1973
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WA
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2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 22, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1

WOL

6534' TD

670
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MAY 23 1973

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66A
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 21, 1973

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
6534' TD

Continuation: 91 Joints
(3116.64') of 5-1/2, 15-
1/2# per ft. J-55 Casing
94 Joints (3285.00') 17#
per ft. J-55 Casing and
set at 6380' KB. Cemented
as follows: (Started at
12:15 p.m.) Broke circu-
lation and circulated 500
gals. of Howco mud flush
followed by 100 Bbls. of
saturated brine. Dropped
bottom plug and cemented
w/180 Sxs. 4% gel, class
"C" cement w/18% Salt, 1/2
% CFR2 followed with 100
Sxs. 2% gel, Class "C"
cement w/18% Salt, 1/2%
CFR2. Used 2 plug method
and bumped top plug to
2200#. Did not hold. Bumped
plug again and held 500#
on surface. WOC. Rigged
down and moved out.

RECEIVED

MAY 23 1973

O & G CONS. COMM.

610

5-21-73

Dear Sir

We have received samples on the following well:

American Fuels Corp.
1-C Navajo
Sec. 6-40N-29E
Apache co, Ariz.

The Company is holding this information TITE and we will wsend samples as soon as they are released to us.

Thank You,

Four Corners Sample cut
Mrs. Jo Ratcliff, Mgr.

RECEIVED

MAY 23 1973

O & G CONS. COMM.

John Hanson

Patriot



U.S. Postage 6c

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
4515 N. 7th AVE.
TELEPHONE: 271-5161
PHOENIX, ARIZONA 85013

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NOO-C-14-20-2250

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

Navajo "C" (Amerada)

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

T40N, R29E CSWSW

Sec. 6

12. COUNTY OR PARISH

Apache

13. STATE

Arizona

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

AMERICAN FUELS CORPORATION

3. ADDRESS OF OPERATOR

2921 Carlisle, N.E. Suite 200, Albuquerque, NM 87110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

At surface

760 ft. from the South Line
630 ft. from the West Line

14. PERMIT NO.

610 (Arizona)

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5583' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:			SUBSEQUENT REPORT OF:		
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other) *	<input type="checkbox"/>				

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

* PRODUCTION PIPE May 18, 1973

Ran 2 Joints (75.65 ft.) of 5-1/2" 15-1/2 lb. per ft. J-55 Casing. Deferential fill float collar
Ran 91 Joints 5-1/2" (3116.64') 15-1/2 lbs. per ft. J-55 Casing.
Ran 94 Joints (3285.00 ft.) 17 lbs. per ft. J-55 Casing and set at 6380' KB. Cemented as follows:
Broke circulation and circulated 500 gals. of Howco mud flush followed by 100 Bbls. of saturated brine. Dropped bottom plug and cemented w/180 Sxs. 4% gel Class "C" cement with 18% Salt 1/2% CFR2 followed with 100 Sxs. 2% gel Class "C" Cement with 18% Salt 1/2% CFR2. Used 2 plug method and bumped top plug to 2200 lbs. Didn't hold, Bumped plug again and held 500 lbs. on surface. WOÇ

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MAY 29 1973

O & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE

AGENT

DATE

5/23/73

(This space for Federal or State office use)

APPROVED BY

610

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

WA
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. ♦ Albuquerque, New Mexico 87110
(505) 345-3507

May 18, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
6534' TD

Running Casing, 6534' TD
Granite & Wash, Bit #9,
7-7/8, F-5, 6341' out at
6534'. 193' in 33-1/2 Hrs.
Vis. 60, Mw 9.5, WL 5.6,
Ph 11.0, Salt 600, 1-1/2
Hrs. Drlg. 4-1/2 Hrs. Trip
8 Hrs. Logging w/Dresser
2 Hrs. circulate & condition
hole to log. 2 Hrs.-Circulate
and condition hole for casing.
4 Hrs. lay down drill pipe and
26 collars and rig up to run
casing. 1-1/2 Hrs. wait on
float equipment, 1/2 Hr. run-
ning casing.

Continuation of report from May 17, 1972-----

Finished running logs at 7:30
p.m. Started in hole at 7:30.
Circulate 4 hrs., came out of
hole laying down drill pipe.
Started in hole at 6:00 a.m.
with Howco Texas pattern guide
shoe, 2 joints (75.65 ft.)
5-1/2', 15-1/2 lbs. per ft.
J-55 Casing, deferential fill
float collar insert.

NAVAJO "B" #1
5865' TD

Shut in, waiting on tank batteries.

RECEIVED

MAY 21 1973

O & G CONS. COMM.

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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 17, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 6526', Lime, Chert, and
Hard Sand. Bit #9, 7-7/8, F-5
In at 6341' still Drlg. 185'
in 32 Hrs. Vis 51, MW 9.3 plus
WL 5.2, Ph 11.0, Salt 600,
24 Hrs. Drlg.

7:00 a.m.

NAVAJO "C" #1

Additional Report

Drlg. 6533', Drlg. 7 mins. per
Ft. Preparing to run open hole
logs. Est. Top Precambrian 6538'.

9:30 a.m.

NAVAJO "C" #1

Additional Report

TD 6534'. Top of Granite 6520'
No Shows. Will Start to Log at
noon. Will run Casing tonight.

NAVAJO "B" #1

5865' TD

Shut in, waiting on tank batteries.

RECEIVED

MAY 21 1973

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WA

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 16, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 6386', Lime, Chert,
Hard Sand. Bit #8, 7-7/8
Hughes J-55. In at 6299',
Out at 6341'. 42' in 11-
3/4 Hrs., Bit #9, 7-7/8,
Smith F-5. In 6341', Made
45' in 8 hrs. Vis 50,
MW 9.5, WL 5.6, Ph 10.5
Salt 600. 17-3/4 Hrs.
Drlg., 5 Hrs. Trip, 1/4
Hr. rig service. 1 Hr. ream
30 ft. back to bottom.

NAVAJO "B" #1
5865' TD

Shut in, waiting on orders

610

RECEIVED

MAY 21 1973

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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 15, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 6311'. Lime, Chert, Hard Sand, Bit #7, 7-7/8, F-5, In at 6221', out at 6299', 78' in 13 Hrs. Bit #8, 7-7/8, J-55 in 6299. L2' in 2 Hrs. Vis 54 MW 9.3, WL 5.6, Ph 10.5, Salt 600. 11-3/4 Hrs. Drlg. 4-3/4 Hrs. trip, 1/2 Hr. rig service. 7 Hrs. ream 110' of out of gaged hole.

~~NAVAJO "B" #1~~

~~5865' TD~~

Shut in, waiting on orders.

RECEIVED

MAY 17 1973

O & G Cons. COMM.

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NOO-C-14-20-2250

WA
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

DAILY DRILLING REPORTS

May 12, 1973

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 5948', Lime & Sh.
Bit #6, 7-7/8, F-5, In
at 5212', Made 736' in
80-1/4 Hrs. Vis 42, MW
9.4 plus, WL 7.2, Ph 11.0
Salt 700, 24 Hrs. Drlg.

May 13, 1973

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 6144', Lime & Sh.
Bit #6, 7-7/8, F-5, In
at 5212', Made 932 ft.
in 103-3/4 Hrs. Vis 55,
MW 9.3 plus, WL 6.8,
Ph 7.0, Salt 600, 23-1/2
Hrs. Drlg., 1/2 rig service
Lost Circulation 5981',
Mixed Mud & LCM, Lost
750 BBls.

May 14, 1973

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 6243', Lime
Bit #6, 7-7/8, F-5
In 5212, Out 6221', Made
1009' in 114-3/4 Hrs.
Bit #7, 7-7/8, F-5 in
at 6221', Still Drlg.
Made 22' in 3-1/4 Hrs.
Vis 63, MW 9.3, WL 6.8
Ph 7.0, Salt 600, 14-1/4
Hrs. Drlg., 5-1/2 Hrs.
Trip, 1/4 Hr. Rig Service,
1-3/4 Hr. Ream, 38' out of
gaged hole. 2-1/4 Hrs.
Slip Drilling Line.

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MAY 17 1973

O & G CONS. COMM.

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WHA

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 11, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 5730', Lime & Sh.
Bit #6, 7-7/8", F-5
In at 5212', Made 518'
in 56-1/4 Hrs. Vis 8
MW 9.4, WL 5.2, Ph 11.5,
Salt 900, 23-3/4 Hrs.
Drlg., 1/4 Hr. rig service.

NAVAJO "B" #1

5865' TD

Shut in, waiting on orders.

610

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MAY 14 1973

O & G CONS. COMM.

WPA
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 10, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 5524', Lime & Sh
Bit #6, 7-7/8, F-5
In at 5210', out at 5524'
Made 314' in 32-1/2 hrs.
Vis 40, MW 9.4, WL 6.0
Ph 11.5, Salt 700, 23-3/4
hrs. Drlg., 1/4 rig service.

~~NAVAJO "B" #1~~

~~5865' TD~~

~~Shut in, waiting on orders.~~

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(505) 345-3507

May 9, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 5299', Lime & Sh
Bit #5, 7-7/8, J-44,
in at 4610', out at 5212'
Made 602' in 61-3/4 hrs.
Bit #6, 7-7/8, F-5
in at 5212', made 87' in
8-3/4 hrs., Vis 40, MW
9.3 plus, WL 5.2, Ph 11.5
Salt 900, 18-1/2 hrs.
Drlg., 4 hrs. trip, 1/4
hr. rig service, 1/4 repair
rig, 1 hr. ream out of gage
hole.

NAVAJO "B" #1
5865' TD

Shut in, waiting on orders

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MAY 11 1973

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WK
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 8, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 5116', Lime & Sh.
Bit #5 in 4610', 506'
in 51-1/4 hrs. Vis 42,
MW 9.3 plus, WL 5.2,
Ph 11.5, Salt 900, 23
Hrs. Drlg., 1/4 hr. rig
service, 3/4 hr. circulate ✓
samples at 5015'.

NAVAJO "B" #1

5865' TD

~~Shut in, waiting on orders.~~

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MAY 10 1973

O & G CONS. COMM.

600

W.A.
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 5, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 4520', Lime & Sh
Survey 2-1/2" 4325', Bit #3
7-7/8", F-3 in 2556' out
4325'. 1769' in 123-1/2
hrs. Bit #4, 7-7/8" J-33
in 4325'. 195' in 17-1/2
hrs.. Vis 38, MW 9.3, WL
6.0, Ph 8.0, Salt 1000,
20 hrs. Drlg., 3-3/4 hrs.
trip, 1/4 hrs. rig service.

May 6, 1973
6:00 a.m.

NAVAJO "C" #1

Drlg. 4648', Lime & Sh
Bit #4, 7-7/8", J-33,
In at 4325', out at 4610'.
285' in 28 hrs., Bit #5,
7-7/8", J-44. In 4610'.
38' in 4-1/2 hrs. Vis 41,
MW 9.3, WL 8.0, Ph 8.5,
Salt 900, 15 Hrs. Drlg.,
4-3/4 hrs. trip, 1/4 hrs.
rig service. 4 hrs. wash
and ream back to bottom.

May 7, 1973
6:00 a.m.

NAVAJO "C" #1

Drlg. 4869', Lime & Sh
Bit #5, 7-7/8", J-44,
in 4610', Made 259' in
8-3/4 hrs., Vis 41, MW
9.4, WL 8.0, Ph 8.5, Salt
900, 23-3/4 Drlg. 1/4 rig
service.

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MAY 10 1973

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WJH
JW
EV

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507
May 4, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 4300', Lime & Sh.
Bit #3, 7-7/8". Still Drlg.
Vis 39, MW 9.2 plus, WL 8.2
Ph 8.5, Salt 2000, 23-3/4
Hrs. Drlg., 1/4 Hr. rig
service.

NAVAJO "B" #1
5865' TD

Shut in, waiting on orders.

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MAY 07 1973
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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 3, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 4029', Sh., Bit #3
7-7/8, F-3. In at 2556'
Drlg. at 4029'. Made 1493'
in 97-1/4 hrs. Vis 38 MW
9.3, WL 8.2, Ph 8.5 Salt
2000, 24 Hrs. Drlg.

NAVAJO "B" #1
5865' TD

Shut in, waiting on orders.

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MAY 04 1973
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WA

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 2, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 3754', S & Sh.
Dev. 2 $\frac{1}{2}$ " at 375' Bit#3
7-7/8, F-3. In at 2556'
1198' in 73-1/4 Hrs.
Vis 36, MW 9.2, WL 16.8
Ph 9.0, Salt 2000, 23-
1/2 Hrs. Drlg., 1/2 hrs.
rig service & wire line
survey.

NAVAJO "B" #1

Shut in, waiting on orders.

6/10

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MAY 04 1973

O & G CONS. COMM.

WA

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 1, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 3443', S & Sh
Bit #3, 7-7/8, F-3
In at 2576', Drlg.
887' in 49-3/4 Hrs.
Vis 34, MW 9.3 plus
WL 9.2, Ph 11.5,
Salt 3100, 23-3/4
Hrs. Drlg., 1/4 Hr.
rig service.

NAVAJO "B" #1

Mesa Drillers
5865' TD

Flowing tubing pressure
80#. Last 19 hrs. flowed
64 bbls fluid. 45% oil
cut or 29 bbls. oil-25
bbls. of water. Average
37 BOPD, 44 BWP. 25 shut
in tubing pressure 450.
Shut in and removed all
handles on tubing head.

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MAY 03 1973

O & G CONS. COMM.

600

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 30, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. 3060', S & Sh
Bit #3, 7-7/8 F-3, in
at 2556', 500' in 26
hrs., Vis 35, MW 9.3,
WL 7.6, Ph 7.0, Salt
3500, Drlg. 23-3/4 hrs.
1/4 hrs. rig service.

NAVAJO "B" #1

Mesa Drillers
5865' TD

Flowing tubing pressure 120.
Bleeder sample oil cut 40%.
Made 59 bbls. of oil, 22 bbls.
of water, later 20 hrs. Aver-
age 21 BOPD; 46 VWPD. Oil cut
73%. 15 min. shut in tubing
pressure 480. Made 0.3 bbls.
of oil, 6.1 bbls. of water next
2-1/2 hrs. Flowing tubing pres-
sure 120. Shut in and rigged
line to pit. Measured gas rate
1540 MCF per day. Flowing tub-
ing pressure 120 on 32/64 choke
Rigged up to flow overnight on
48/64" choke.

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WAX

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 29, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 2590', S & Sh.
Dev. 1-1/40 at 1949';
1-1/20 at 2556' - Bit
#2, 7-7/8, X-1G in
1949', out at 2556'.
Made 607 ft. in 14-1/2
hrs., Bit #3, 7-7/8, F-3
in 2556'. Made 607' in
14-1/2 hrs.. Bit #3,
7-7/8, F-3 in 2556'. 34
ft. 2-1/4hrs. Vis 38
MW 9.4, WL 6.4, Ph 8.5
Salt 1700, 16-3/4 Hrs.
Drlg. 5-3/4 Hrs. Trip
1/4 Hr. rig service,
3/4 hrs. circulate
samples 2080', 1/2 hrs.
circulate samples at 2117'

NAVAJO "B" #1
Mesa Drillers
5865' TD

Flowing Tubing Pressure
140 lbs. Bleeder sample
30% oil cut. 5 min. Flow-
ing tubing pressure 410.
Last 18-3/4 Hrs. recovered
16 bbls. of oil plus 107
bbls. of load water. Aver-
age oil cut 13%. Continued
to flow on 25 60/4 choke.
All load water recovered.
5 Hrs. 15 min. recovered
3.2 bbls. of oil plus 21.6
bbls. of water. Average oil
cut 13%. Flowing Tubing Pres-
sure 130. Open to flow over
night on 32 60/4 choke.

6/10

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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 29, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Drlg. 2590', S & Sh.
Dev. 1-1/4" at 1949';
1-1/2" at 2556'. Bit
#2, 7-7/8, X-1G in
1949', out at 2556'.
Made 607 ft. in 14-1/2
hrs., Bit #3, 7-7/8, F-3
in 2556'. Made 607' in
14-1/2 hrs.. Bit #3,
7-7/8, F-3 in 2556'. 34
ft. 2-1/4hrs. Vis 38
MW 9.4, WL 6.4, Ph 8.5
Salt 1700, 16-3/4 Hrs.
Drlg. 5-3/4 Hrs. Trip
1/4 Hr. rig service,
3/4 hrs. circulate
samples 2080', 1/2 hrs.
circulate samples at 2117'

NAVAJO "B" #1
Mesa Drillers
5865' TD

Flowing Tubing Pressure
140 lbs. Bleeder sample
30% oil cut. 5 min. Flow-
ing tubing pressure 410.
Last 18-3/4 Hrs. recovered
16 bbls. of oil plus 107
bbls. of load water. Aver-
age oil cut 13%. Continued
to flow on 25 60/4 choke.
All load water recovered.
5 Hrs. 15 min. recovered
3.2 bbls. of oil plus 21.6
bbls. of water. Average oil
cut 13%. Flowing Tubing Pres-
sure 130. Open to flow over
night on 32 60/4 choke.

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AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 28, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1
Mesa Drillers
5600' TD

Making trip for Bit #2
1949', S & Sh. Bit #1,
7-7/8, X-3 in 377', out
1949'. Made 1572' in 32
hrs. Vis. 45, MW 9.4,
WL 6.8 Ph 7.0. Drlg. 19
hrs., 1-1/4 Hrs. trip,
1/4 Hr. rig service.
3 hrs. working stuck pipe
Picked up driving tool.
Unstuck pipe string. Laid
down driving tool.

NAVAJO "B" #1
Mesa Drillers
5865' TD

Rigged up drain line to
pit and bled off water.
14 Hrs. shut in tubing
pressure 1200 lbs. Opened
flow on 14 60/4 choke. Bled
all water off. 40 bbls. of
oil in tank. Opened to
flow overnight on 24 60/4
choke. Flowing tubing pres-
sure 125. 5 min. shut in
tubing pressure 300. Bleeder
samples showed 20% oil cut.
Gas est. 250 to 300 MCF per
day. No gage on water or
oil production because of
tank bleeding.

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WA
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 27, 1973
6:00 a.m.

DAILY DRILLING REPORT

NAVAJO "C" #1

Mesa Drillers
5600' TD

Drlg. at 1204'. S and SH.
950' 1^o, Bit #1 7-7/8"
X-3. Went in 377', out
1204'. 827' in 13 hrs.
Vis 36, MW 9.6. 12-3/4Hrs.
Drlg. 10-1/2 Hrs. Wait
on Cement, Nipple up, trip
in hole with 500 lbs. pres-
sure. 1/2 Hr. Drill plug in
cement. 1/4" wire line sur-
vey.

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WA

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

April 26, 1973
6:00 a.m.

DAILY DRILLING REPORT

DAILY DRILLING REPORT

NAVAJO "C" #1 APACHE COUNTY, ARIZONA April 26th (69 days)
6534' TD

CORRECTED REPORT Saturday, June 30, 1973

Installed spherical 125 psig separator with temporary flow lines producing into treating tanks. Opened well and flowed on 4 stabilized flow rates. Unofficial max. flow tests: Stabilized at 1.9 MMCF FTP-1100 psi-1"choke PD recovered disstillate at the rate of 180 BOPD, no water. Shut well in overnight.

Ran 11 joints 8-5/8" casing
24 lbs. J-55, Total 351. Set
at 13 below RDB. Setting Depth
364'. Cemented with 60 Sx.
Class "C". w/6^o jell. 1/4 flow
seal, 50 sx., Class "C" 2^ojell
2^o CC. Plug was down 9:00 p.m.

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NAVAJO "C" #1
Mesa Drillers
5600' TD

Waiting on cement. Depth is
377'. S and Sh. Survey 3/40
at 377'. Bit #1, 11" DTJ
Went in at 0', out at 377'.
Made 377' in 6 Hrs. Vis. Spud
mud. 6 Hrs. Drlg., 1 Hr.
Tripping. 1-1/2 Hrs. run
8-5/8" Casing. 1/2 Hr. Cement
casing. 9 Hrs. WOC nipple up.
1/2 Hr. circulate and con-
dition for 8-5/8" Casing.
4 1/2 Hrs. Rig up and Drill Rat
and Mouse Hole.

Ran 11 joints 8-5/8" casing
24 lbs. J-55, Total 351. Set
at 13 below RDB. Setting Depth
364'. Cemented with 60 Sx.
Class "C". w/6^o jell. 1/4 flow
seal, 50 sx., Class "C" 2^o jell
2^o CC. Plug was down 9:00 p.m.

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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. 0-C-14-20-2250
2. NAME OF OPERATOR American Fuels Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR 2921 Carlisle, N.E. Suite 200, Albuq., NM 87110		7. UNIT AGREEMENT NAME NA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 760 ft. from the South line 630 ft. from the West line		8. FARM OR LEASE NAME Navajo "C" (Amareda)
9. WELL NO. #1	10. FIELD AND POOL, OR WILDCAT Wildcat	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA T40N, R29E CSWSW Sec. 6
12. COUNTY OR PARISH Apache	13. STATE Arizona	
14. PERMIT NO. 610 (Arizona)	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5583' GR	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

*SURFACE PIPE April 26, 1973

11 joints, 8-5/8" Casing, Total 351', Setting Depth 364'
60 Sacks, Class "C", 6% Gel, 1/4 Flow Seal, 50 Sacks,
Class "C", 2% Gel, 2 degrees CC.

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18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Agent DATE 4/26/73

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

610

*See Instructions on Reverse Side

208
AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

NAVAJO "C" WELL NO. 1

INFORMATION DATA SHEET

Operator: American Fuels Corporation
2921 Carlisle Blvd., NE Suite 200
Albuquerque, NM 87110
Telephone: (505) 345-3507; 345-3508

Well Name: Navajo "C" Well No. 1

Location: 760' SNL and 630' EWL, Section 6,
T40N, R29E, Apache County, Arizona

Lease Description: Sections 5 and 6, T40N, R29E
Apache County, Arizona

Elevations: Ground level 5583'

Drilling Contractor: Mesa Drillers
P. O. Box 108
Lubbock, Texas 79408
Tool Pusher: Max Bailey
1617 Camino Place
Farmington, NM 87401
Phone: (505) 327-9455

Cementing Services: Halliburton
406 Petroleum Plaza Bldg. Farmington, NM

Mud Supplier: Baroid, Farmington, NM

Logging Services: Dresser-Atlas (Bud Dickerson), Farmington, NM

Geological Services: Mud Logger-Colorado Plateau Well Logging Co.
Farmington, NM
Telephone: (505) 325-9671; 325-3641; 325-7855

Geologist: Harold Brown
Petroleum Plaza Bldg., Farmington, NM 87401
Phone: (505) 325-4900 (office)
324-2188 (Home)

Engineering Services: Curry Engineering Co.
P. O. Box 5596, Midland, TX 79701
Phone: (915) 682-4096 or 2031

Company Personnel: C. R. Robinson, Albuquerque, NM, (505) 345-3507
E. M. Riebold, Albuquerque, NM, (505) 345-3507
Daroyl Curry, Midland, TX; (915) 682-2031/694-7849
Max E. Curry, Midland, TX; (915) 682-2031/694-3625

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AZ-69 Pt.

ARC-2216
Form 9-1173
(Rev. Dec. 1957)

quadruplicate
(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Navajo Agency
Contract ~~SERIES~~ NO.: N00-C-14-20-2250

and hereby designates

NAME: American Fuels Corporation
ADDRESS: 2917 Carlisle Blvd., N. E. Albuquerque, New Mexico 87110

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 40 North, Range 29 East, G.S.R.M.
Section 6: All

Apache County, Arizona

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

AMERADA HESS CORPORATION
Formerly AMERADA PETROLEUM CORPORATION

BY C. M. Murfay (Signature of Lessee) Attorney-in-Fact

April 13, 1973

(Date)

P. O. Box 2040, Tulsa, Oklahoma 74102
(Address)

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O & G CONS. COMM.

AZ-69 Pt.

ARC-2216
Form 9-1123
(Rev. Dec. 1957)

quadruplicate
(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Navajo Agency
Contract ~~XXXX~~ No.: NOO-C-14-20-2250

and hereby designates

NAME: American Fuels Corporation
ADDRESS: 2917 Carlisle Blvd., N. E. Albuquerque, New Mexico 87110

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 40 North, Range 29 East, G.S.R.M.
Section 6: All

Apache County, Arizona

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The lessee agrees promptly to notify the supervisor of any change in the designated operator.

AMERADA HESS CORPORATION
Formerly AMERADA PETROLEUM CORPORATION

BY C. M. Murray
C. M. Murray (Signature of Lessee) Attorney-in-Fact

April 13, 1973
(Date)

P. O. Box 2040, Tulsa, Oklahoma 74102
(Address)

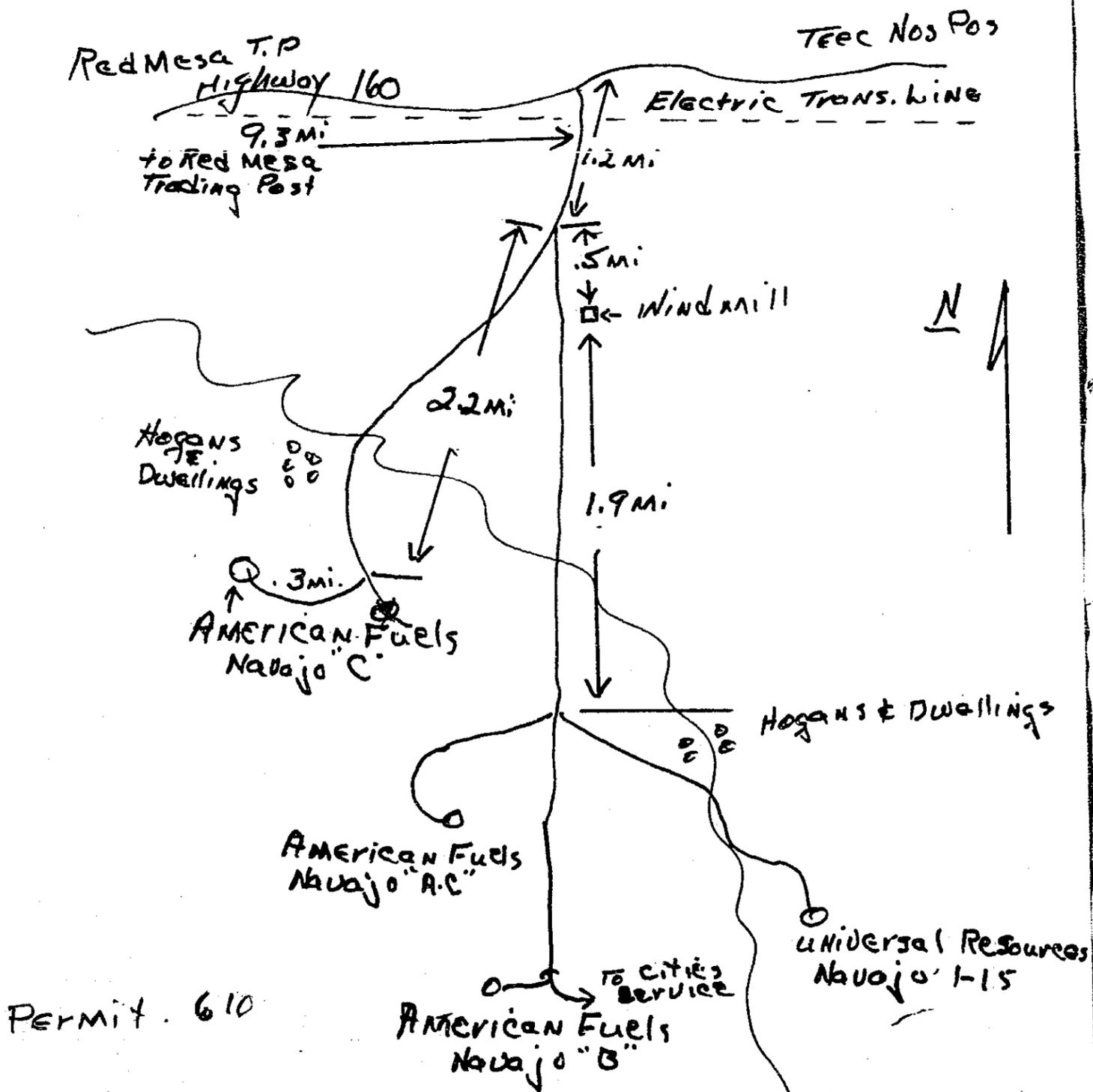
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Map to American Fuels
Navajo "B", "C", "AC" &
UNIVERSAL RESOURCES 1-15



WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DISSOCIATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator AMERICAN FUELS CORPORATION		Address 2921 Carlisle, N.E., Albuquerque, N. M.	
Federal, State or Indian Lease Number or name of lessor if fee lease Navajo "C"		Well Number 1	Field & Reservoir Black Rock Penn
Location 760/SL, 630/WL		County Apache	
Sec. TWP-Range or Block & Survey Sec 6, T40N, R29E			
Date spudded 4-27-73	Date total depth reached 18 My 73	Date completed, ready to produce 5 Oct 73	Elevation (DF, RKB, RT or Cr.) 5595 KB feet
Elevation of casing hd. Range 5583 feet			
Total depth 6534	P.B.T.D. 6520	Single, dual or triple completion? Single	If this is a dual or triple completion, furnish separate report for each completion.
Producing interval (s) for this completion 4922-5178		Rotary tools used (interval) Surface-ID	Cable tools used (interval) none
Was this well directionally drilled? no	Was directional survey made? no	Was copy of directional survey filed?	Date filed
Type of electrical or other logs run (check logs filed with the commission) I-ES, CDL, GR-N			Date filed

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	8-5/8"				none
Production	7-7/8"	5-1/2"	15.5 & 17	6380	280	none

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2-3/8" in.	4900 ft.	4900 ft.	none in.				

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth interval	Amt. & kind of material used	Depth interval
13 holes	1/2" jet	6140-6348	Acidized w. 1750 gal	6140-6348
27 holes	1/2" jet	4922-5416	A/6250 gal, F/17000 gal	4922-5416

INITIAL PRODUCTION

Date of first production: **S.I. waiting on recompletion, request permission to temporarily abandon for 6 months.**

Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
			bbbl.	MCF	bbbl.	* API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
			bbbl.	MCF	bbbl.	

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the agent of the
AMERICAN FUELS CORPORATION (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts therein are true, correct and complete to the best of my knowledge.

11 Dec 73
Date

D. R. Curry
Signature **D. R. Curry, Engr.**

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DEC - 4 1973

Permit No. **610**

O & G CON. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy

Form No. 4

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Remarks
U. Hermosa	3984	4654	ls
U. Ismay	4654	4726	ls
L. Ismay	4726	4780	ls
Desert Creek	4780	4880	ls
Akah	4880	5090	ls
Barker Creek	5090	5340	ls
L. Hermosa	5340	5640	ls
Molas	5640	5744	sh
Miss	5744	6000	ls
Dev. Guray	6000	6064	ls
Dev. Elbert	6064	6236	ls & sd
Dev. McCracken	6236	6364	ls
Dev. Aneth	6364	6518	ls
Pre-Cambrian	6518	TD	qtzite

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, casing used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach driller's log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

AMERICAN FUELS CORPORATION

NAME OF COMPANY OR OPERATOR

2917 Carlisle Blvd., NE, Albuquerque, New Mexico 87110

Address City State

Mesa Drillers

Drilling Contractor

P. O. Box 108, Lubbock, Texas 79408

Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
Navajo 0-C-14-20-2250	Navajo "C" #1	5583'

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
760 ft. from So.Line, 630 ft. from W.Line	NA feet

Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
approx. 1058 ac.	NA

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
	NA	

Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
760' from So.Line, 630' from W.Line	Sec 6, T40N, R29E	W $\frac{1}{2}$ SW 80 ac.

Field and reservoir (If wildcat, so state)	Line	County
Wildcat		Apache

Distance, in miles, and direction from nearest town or post office:
10 mi. West of Teec Nos Pos

Proposed depth:	Rotary or cable tools	Approx. date work will start
5600' Miss.	Rotary	April 18, 1973

Bond Status	Organization Report	Filing Fee of \$25.00
Amount <i>Cash</i> \$5,000	On file <input checked="" type="checkbox"/> Or attached	Attached <input checked="" type="checkbox"/>

Remarks:
A 5600' Miss. test is proposed. All zones indicating potential will be tested. Colorado Plateau Well Logging Service will maintain a mud logging unit on well from 2500' to total depth. Gamma-Ray, Sidewall Neutron, Caliper, Dual Induction and Acoustic logs will be run from TD to 2500'

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Secretary of the American Fuels Corporation (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

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APR 20 1973

O & G CONS. COMM.

Signature

Date

Permit Number: 510
Approval Date: 4-24-73
Approved By: WB [Signature]

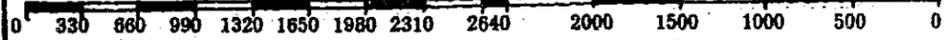
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Form No. 3

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____ If answer is "yes," Type of Consolidation: Farmout
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner Amerada Hess Corporation	Land Description Sec. 5 and 6																
<table border="1" style="width: 100%; height: 300px; border-collapse: collapse;"> <tr><td style="width: 25%; height: 50px;"></td><td style="width: 25%; height: 50px;"></td><td style="width: 25%; height: 50px;"></td><td style="width: 25%; height: 50px;"></td></tr> <tr><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td></tr> <tr><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td></tr> <tr><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td><td style="height: 50px;"></td></tr> </table>																	
<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p>																	

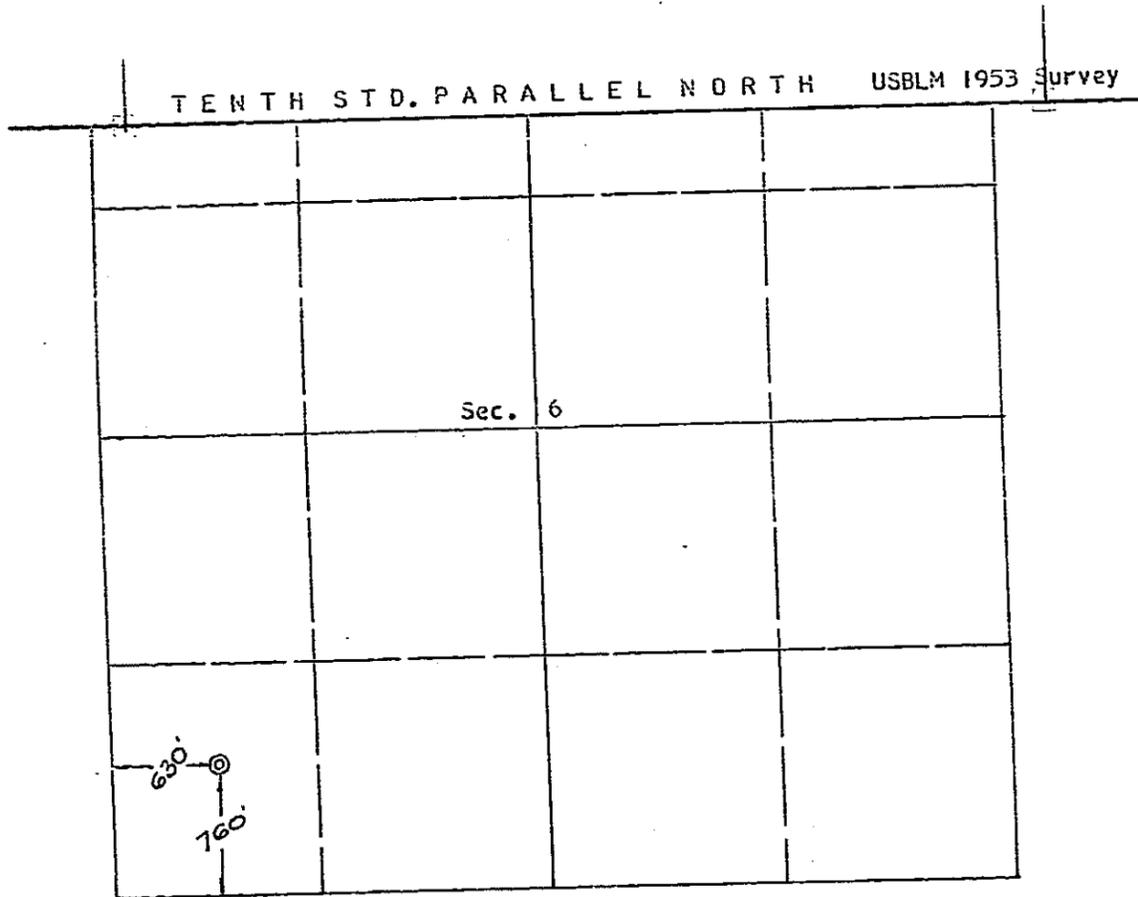


PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8"OD	24# 8RD3	ST & C	Circ.	300'	300'	225SX

WA

Company American Fuels Corporation
 Well Name & No. AFCO Navajo "C" #1
 Location 760 feet from the South line and 630 feet from the West line.
 Sec. 6, T. 40 N., R. 29 E, Gila & Salt River Meridian, Apache Co., Ariz.
 Ground Elevation 5583



Surveyed April 15, 1973

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



RECEIVED

APR 23 1973

O & G CONS. COMM.

E. V. Echohawk

Ernest V. Echohawk
 Registered Land Surveyor
 Arizona Reg. No. 2311

610

AMERICAN FUELS CORPORATION, ALBUQUERQUE, NEW MEXICO

PAYEE: DETACH THIS STATEMENT BEFORE DEPOSITING CHECK

DATE	INVOICE NO.	DESCRIPTION	AMOUNT	DISCOUNT OR DEDUCTION	NET AMOUNT
4/19/73	610	Filing Fee for Permit to Drill Navajo "C" #1			\$25.00



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: AMERICAN FUELS CORPORATION
(OPERATOR)

to drill a well to be known as

AMERICAN FUELS CORPORATION NAVAJO "C" #1
(WELL NAME)

located 760' PSL - 630' FWL

Section 6 Township 40N Range 29E, Apache County, Arizona.

The W/2 of SW/4, 80 acres of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 24th day of April, 19 73.

OIL AND GAS CONSERVATION COMMISSION

By [Signature]
EXECUTIVE SECRETARY

PERMIT N^o 610

RECEIPT NO. 2950
API NO. 02-001-20184

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

SAMPLES ARE REQUIRED

Operator ~~GHUSKA ENERGY COMPANY~~ (*Harker Southwest Corp.*)

Bond Company VALLEY NATIONAL BANK - ARIZONA Amount \$25,000

Bond No. C.D. #2578904 Date Approved 12/01/89

Permits covered by this bond:

- 559
- 581
- 610 (*P+A 11/21/95*)
- 615 (P & A 5/10/91)
- 868
- 869 expired
- 870 (J & A 5/90)
- 871
- 872 expired
- 873 (P & A 8/4/93)
- 874 expired
- 875
- 881
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

HARKEN
ENERGY
CORPORATION



March 11, 1994

State of Arizona
Oil & Gas Conservation Commission
845 N. Park Avenue, Suite 100
Tucson, AZ 85719

610

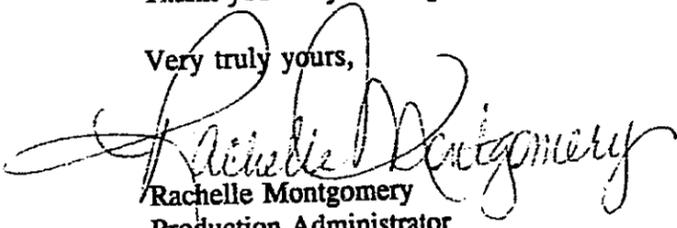
Re: NOG 8702-1139
NOG 8702-1140
NOG 8702-1142
Black Rock Well No.'s 1, 3, 5, 8 and 12

Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

Thank you for your cooperation.

Very truly yours,


Rachelle Montgomery
Production Administrator

RM/jkw



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

March 2, 1994



Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
845 Northpark Ave., Suite 100
Tucson, Arizona 85719

Re: Chuska Energy Company-Arizona Statewide Bond for Drilling of Wells

Dear Mr. Rauzi:

Please be advised that with regard to the above referenced bond we are herewith enclosing documentation relating to a name change. Chuska Energy Company has now changed its name to Harken Southwest Corporation. Copies of the official documentation relating to this change of name are enclosed. We would appreciate the Arizona Geological Survey changing their records to style the above referenced bond as follows:

Harken Southwest Corporation, formerly Chuska Energy Company

Sincerely

HARKEN SOUTHWEST CORPORATION

Dale Brooks
Treasurer

DB:ie
Enclosures
cc: Bruce N. Huff



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

January 28, 1994

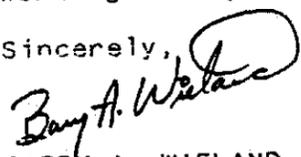
We are pleased to announce that Chuska Energy Company has changed its name to Harken Southwest Corporation. This is in line with the February, 1993 merger with Harken Exploration Company.

Harken Southwest Corporation will continue to be located at 3315 Bloomfield Highway, Farmington, New Mexico 87401. Our telephone number will remain (505) 326-5525.

Please reflect this name change on all future correspondence.

Thank you for your assistance in this matter. We look forward to working with you as Harken Southwest Corporation.

Sincerely,


BARRY A. WIELAND
Operations Manager





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
215 Fremont Street
San Francisco, CA 94105

#610

MAY 22 1990

Return Receipt Requested
Certified Mail: P560 660 381

H. Merle Myers
Vice President of Production
Chuska Energy Company
315 No. Behrend
Farmington, NM 87499

In reply
refer to W-6-2

Re: UIC Final Permit Number NAS900000001
Black Rock No. 4
Black Rock Field
Apache County, Arizona

Dear Mr. Myers:

Transmitted herewith is an Underground Injection Control (UIC) Final Permit for your proposed Black Rock No. 4 Class IID water injection well in Black Rock Field, Apache County, Arizona. Also enclosed is a copy of the EPA Responsiveness Summary, which contains our responses to the comments received and a record of the statements, questions, and answers heard at the public meeting held in Shiprock, New Mexico, on April 20, 1990.

The public comment period on the proposed permit action ended on April 20, 1990, coincident with the public meeting held on that date. All comments received and statements heard at the meeting were considered in rendering our decision to issue the permit. No substantive changes have been made in converting the draft permit to the final permit.

It should be noted that the injection volume (rate) limitation has been increased from 443 to 800 BWPD, subject to a maximum injection pressure of 225 psig or the results of a step-rate test. Also, the injection fluid limitation has been modified to allow inclusion of the small amounts of water produced from the Black Rock Nos. 1 and 3 wells. These two wells along with the No. 2 well yield water from the same formation, identified as the Paradox formation. The composite water analysis, submitted in support of your request to add the water from these two wells to the injected fluid stream, indicated that the composition of the injection fluid is essentially unchanged from the injection fluid analysis submitted in the original application. Injection of fluids produced from the Black Rock Nos. 5 and 8 wells may be

allowed following a minor modification to the permit pursuant to your submittal to the EPA of composite water analyses from these wells. Under the Injection Well Monitoring Program Section of the permit, the analysis of the injection fluids shall be performed quarterly as specified in the draft permit, but a request to change to annual frequency may be considered if consecutive quarterly analyses document no significant change in water quality.

Pursuant to 40 CFR §124.15, the permit will become effective 30 days from the date of issuance. Before the permit becomes effective, any person who filed comments on the draft permit or participated in the public meeting may petition the EPA Administrator to review any condition of the permit decision, under 40 CFR §124.19. Any person who failed to file comments or failed to participate in the public meeting on the draft permit may petition for administrative review only to the extent of the changes from the draft to the final permit decision. The petition shall include a statement of the reasons supporting that review, including a demonstration that any issues being raised were raised during the public comment period or the public meeting to the extent required by these regulations.

Please note that under the terms of the final permit, you are authorized only to convert the proposed new injection well. Prior to commencing injection, you must fulfill both Permit Condition 3 of Part II, Section A (Formation Logging and Testing) and Permit Condition 1 of Part II, Section C.

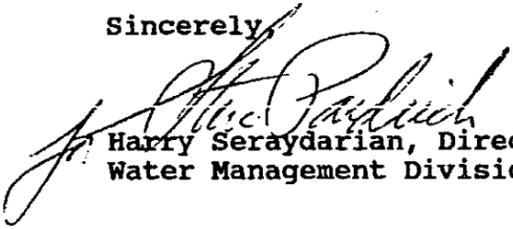
After submitting your completed Well Rework Record (EPA Form 7520-12, in Appendix B) and successfully passing the Mechanical Integrity Test, you must obtain written authorization from EPA to commence injection. In summary, these requirements for your new injection well are:

1. Obtain the existing injection formation reservoir pressure.
2. Conduct a documented step rate test to identify the injection formation fracture pressure.
3. Conduct a cement bond/variable density/gamma ray survey to evaluate the cement sheath in the 7-inch casing annular space.
4. Perform an acceptable mechanical integrity pressure test.
5. Submit a Well Rework Record (Form 7520-12).

Mr. Lester Kaufman, Chief, Underground Injection Control Section, EPA Region IX, San Francisco, California, must be notified 30 days in advance of any mechanical integrity testing so that arrangements can be made for the test to be witnessed.

If you have any questions on these actions, please call Lester Kaufman at (415) 705-2107 or James Walker, UIC Environmental Engineer, at (303) 293-1429.

Sincerely,


Harry Seraydarian, Director
Water Management Division

enclosures

cc: ✓ Daniel Brennan
Executive Director
Arizona Oil & Gas Commission

Raymond Roessel
Manager - Underground Injection Control
Navajo Environmental Protection Administration

Ken Townsend
Chief of Fluid Minerals
U. S. Bureau of Land Management

James Stevens
Area Director - Navajo Area Office
Bureau of Indian Affairs

Louise Linkin
Director
Navajo Environmental Protection Administration

Peter Deswood, Jr.
Executive Director
Navajo Division of Natural Resources

Leonard Haskie
Interim Chairman
Navajo Tribal Council

Stanley Pollock
Assistant Attorney General
Navajo Nation Department of Justice

Luis Rivera
Indian Health Services



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141
PHOENIX, ARIZONA 85016
PHONE: (602) 255-5161

February 22, 1990

Mr. James Walker
USEPA Region 9
Water Management Division
Underground Injection Control Station (W-6-2)
215 Fremont Street
San Francisco, CA 95105

RE: Public Notice NA-UIC-90-PO1
Chuska Energy Injection Well

Dear Mr. Walker:

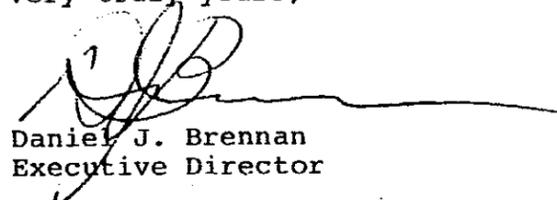
We wish to make a brief comment on the Statement of Basis for UIC Permit Number NAS 900000001 Chuska Energy, 4 Black Rock NW SW SW Sec. 6, T40N-R29E Apache County, Arizona.

On Page 8 Section F - Financial Responsibility, it is noted that Chuska Energy has posted a \$25,000 bond with the State of Arizona. This is correct. However, the bond is a "statewide" bond and covers other wells operated by Chuska in this state as well as the proposed injection well. We require a bond of \$5,000 per well or \$25,000 for all wells operated by a single concern in the state. It is questionable whether more than \$5,000 of the bond could be applied to a single well.

At this time we do not see any need to modify the draft permit.

You may also wish to know that after notice and public hearing, the Oil and Gas Conservation Commission has approved Chuska's application to convert the well into an injection well.

Very truly yours,


Daniel J. Brennan
Executive Director

cc: Don Barnes - Chuska



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141
PHOENIX, ARIZONA 85016
PHONE: (602) 255-5161

Permit 610

November 1, 1989

Mr. Don Barnes
Chuska Energy Co.
315 North Behrend
Farmington, NM 87401

Dear Don:

I have been going over your application to convert the well located in SW/4 Sec. 61, T40N R29E, Apache County, Arizona into a Class II water disposal well. Enclosed is a copy of the applicable rule (12-7-176) on which I have checked off the materials you submitted.

As far as I can see, you need only to fill out our Application to Dispose of Salt Water by Injection into a Porous Formation, and to make a radiological and biological analysis of the injection water and provide us with the results. The radiological analysis is to check to make sure nobody is being contaminated by radiation. You will probably want to know whether the water has any organisms that will plug the injection well and formation, and we need a copy of that analysis.

When the application is complete we will need to hold another hearing. You will be asked to send a representative to make a presentation. The only costs we impose are that you pay for the court reporter and the legal notice in the newspaper, which are legal requirements.

The Commission has regular meetings every two months on the third Friday of the month at 10:00 A.M. in our office. The next meeting is November 17, so it is too late for that meeting. The next regularly scheduled meeting is January 19.

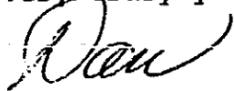
By the way, that is a nice geologic map that is included in the package. If that is not proprietary, I would sure like to find out where it came from.

Mr. Don Barnes

November 1, 1989
Page - 2 -

Hope this gets you going so we can be faster than the Feds.

Very truly yours,



Daniel J. Brennan
Executive Director

Enclosure

indicated on the form. Such form may be filed in its machine record version at the option of the producer. Said report shall be filed on or before the 25th day of the next succeeding month.

B. If a well is off production for a period exceeding 30 days, the Commission shall be notified and the reasons given (Form 25, see Appendix 1).

Historical Note

Former Rule 502; Amended eff. Sept. 29, 1982. See also Section R12-7-171 (Supp. 82-5).

R12-7-162.

Reserved

R12-7-169.

R12-7-170. Reserved

Historical Note

Former Rule 601; Language transferred and amended, see Section R12-7-160 (Supp. 82-5).

R12-7-171. Reserved

Historical Note

Former Rule 602; Language transferred and amended, see Section R12-7-161 (Supp. 82-5).

R12-7-172.

Reserved

R12-7-175.

R12-7-176. Permit for injection

A. The injection of any substance into any oil or gas reservoir to increase recovery is prohibited unless authorized by the Commission after notice and hearing. Not less than 15 days notice shall be given before a hearing is held for processing a permit for an injection or disposal well. A permit shall not be required, however, for substances utilized in formation fracturing, acidization or other well stimulation techniques whose physical effects are confined to an area near the well bore.

B. The application for a permit to inject any substance into any reservoir shall contain the following:

- ✓ 1. Plat showing the location of the injection well or wells, the location of all wells including drilling wells and dry holes, the names of the lessees within one-half mile of the injection well or wells, and each offset operator.
- ✓ 2. The formation from which wells are producing or have produced.
- ✓ 3. The name, description, thickness and depth of the formations to be affected by injection.

- ✓ 1. The log of the injection well or wells, or such information as may be available.
- ✓ 5. Description of the injection well's casing, or the proposed casing program, and the proposed method of testing casing before use of the injection wells.
- ✓ 6. Designation of the substance proposed to be used for injection, analysis of the substance to be injected, the source, and the amount proposed to be injected daily.
- ✓ 7. The names and addresses of the operator or operators of the project.
8. The source and an analysis of the chemical, physical, radiological and biological characteristics of the injection fluid (Form 15, see Appendix 1).
- ✓ 9. Description of stimulation, if performed (Form 4, see Appendix 1).
- ✓ 10. Information showing that injection into the proposed zone will not initiate fractures through the overlying strata which could enable the injection fluid or formation fluid to enter fresh-water strata.
- ✓ a. When the fluid injection rate is 1,000 barrels per day or less, or equivalent rate for any fraction of 24 hours, an overlying strata of at least 200 feet in thickness between the lowest base of fresh water and the top of the proposed interval of injection is considered sufficient evidence of fresh-water protection.
- b. When the fluid injection is greater than 1,000 barrels per day, or equivalent rate for any fraction of 24 hours, an overlying strata of at least 500 feet in thickness between the lowest base of fresh water and the top of the proposed interval of injection is considered sufficient evidence of fresh-water protection.
- c. If the thickness of the overlying strata is more than required in R12-7-176.B.10.a. or b., the Commission may, upon application, approve such injection after hearing if the Commission finds that such injection will not initiate fractures through the overlying strata into fresh-water strata. The applicant shall have the burden of furnishing the Commission with such sworn evidence and data necessary to support such findings. The Commission shall consider maximum injection rate, maximum surface injection pressure, injection fluid and the lithology and rock characteristics of the injection zone and overlying strata.
- C. The Commission upon application may exempt an aquifer from the requirements set forth in R12-7-176.B.10. after due notice and hearing. The application shall include sufficient engineering and hydrological data to justify the requested exemption. Only aquifers approved for exemption by the appropriate agency of the State of Arizona may be exempt.
- D. Application for enlargement of existing authorized underground disposal sites shall include the following:
1. Precise identification of the geological formation to be used for proposed disposal purposes.
 2. Geological and hydrological data in support of any proposed disposal well.
 3. Waivers from all operators and surface owners within one-half mile of any proposed disposal well or proof to the satisfaction of the Commission that such

*do an actual
analysis of
produced water,
for a certain
biological
See BWP D*

operators and surface owners were notified by the applicant of any proposed additional disposal well.

4. An application for enlargement of an existing authorized underground disposal site may be approved by the Commission without hearing if no protest or request for hearing on such application is received within 20 days after the date of notification to operators and surface owners as referred to in B. 10.c. of this Rule.

Historical Note

Former Rule 701; Amended eff. Sept. 29, 1982. See also Section R12-7-141 (Supp. 82-5).

R12-7-177. Casing and cementing of injection wells

A. Wells used for injection into producing formation shall be cased with safe and adequate casing or tubing in order to prevent leakage. The casing or tubing shall be so set or cemented that damage will not be caused to oil, gas, or fresh water resources.

B. Surface casing shall be pressure tested with a minimum of 600 psi for 30 minutes. If a drop of more than 10 percent of the test pressure should occur, the casing shall be considered defective and corrective measures shall be applied. In wells drilled with cable tools, casing may be tested by bailing the well dry. The hole must remain satisfactorily dry for one hour before commencing further operations. Results of the above test and any remedial action shall be reported on Form 25 (see Appendix 1) within 20 days following the test.

Historical Note

Former Rule 702; Amended eff. Sept. 29, 1982 (Supp. 82-5).

R12-7-178. Notice of commencement and discontinuance of injection operations

The following provisions apply to all injection projects:

1. Immediately upon the commencement of injection operations, the operator shall notify the Commission of the commencement date.
2. Within 10 days after permanent discontinuance of injection operations, the operator shall notify the Commission of the date of such discontinuance and the reasons therefor.
3. Before any injection well is plugged and abandoned, notice of intent (Form 9, see Appendix 1) shall be given to the Commission, and the same procedure shall be followed in the plugging and abandonment of the well as provided with respect to the plugging and abandonment of oil and gas wells. (See Rule R12-7-126.)
4. An injection or disposal well shall not be transferred from one operator to another without the approval of the Commission. The transfer of ownership of an injection or disposal well from one operator to another shall be filed with the Commission on a "Designation of Operator" form in triplicate, prior to the proposed

transfer date. Within 30 days after such filing, the Commission shall return a copy of the above form to the former operator and the proposed new operator, designating approval or denial of the transfer of authority to inject for the subject well. A copy of the order authorizing injection, if approved, shall be attached to the returned form.

Historical Note

Former Rule 703; Amended eff. Sept. 29, 1982 (Supp. 82-5).

R12-7-179. Records and reports

A. Sundry reports shall be filed weekly on all drilling, completion, recompletion and workover operations on Form 25 (see Appendix 1).

B. The operator of an injection project shall keep accurate records of the amount of oil and gas produced, and volumes of substances injected, the amount of water produced, and other data that the Commission may require to be reported on Form 14 (see Appendix 1). Such report shall be submitted on or before the 25th day of the next succeeding month.

C. The following pressure or monitoring test shall be performed on new injection wells and disposal wells periodically to establish the mechanical integrity of the tubing, casing and packer. Existing wells being converted to injection or disposal shall be tested in the same manner and shall maintain the same mechanical integrity as a new well.

1. The casing-tubing annulus above the packer shall be tested not less than once every 5 years under the supervision of the Commission at a pressure equal to maximum authorized injection pressure or at a pressure of 1,000 psi, whichever is lesser, provided no testing pressure shall be less than 300 psi. Documentation of the test shall be submitted to the Commission if not so supervised.

2. In lieu of casing pressure required under Paragraph 1. of this Subsection, the operator may monitor and record during actual injection the pressure in the casing-tubing annulus monthly and report the pressures annually.

3. One of the following tests shall be performed to demonstrate the absence of fluid movement in the vertical channels adjacent to the injection well:

- a. Tracer surveys.
- b. Noise logs.

D. Mechanical failure or downhole problems which indicate an injection or disposal well is not, or may not be, directing the injected fluid into the permitted or authorized injection zone may be cause to shut in the well. If said condition may endanger the fresh water, the operator shall orally notify the Commission within 24 hours, followed by written notice within 5 days of the occurrence, together with a plan for testing and repairing the well.

Historical Note

Former Rule 704; Amended eff. Sept. 29, 1982 (Supp. 82-5).



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

DATE: November 14, 1974

TO: All American Fuels Wells
Apache County

FROM: W. E. Allen, Director
Enforcement Section

Talked with Robert Schreiber, Navajo Tribe, today regarding the above referenced wells. The leases have expired on all but one well, I think it is the Navajo #B-1, SE/SW Section 9-T40N-R29E. The Tribe has taken over all wells except the one with the unexpired lease, including the two drilled by Cities Service.

The final disposition of these wells are under consideration by the Tribe. They may try to produce some wells themselves or may offer some or all for sale to the highest bidder. Supposedly they will notify this office of their ultimate decision. In the meantime our hands are tied. We can do nothing except hold unto the cash bond posted by American Fuels.

October 24, 1974

Memo from W. E. Allen, Director
Enforcement Section

Memo to the following files:

Cities Service Monsanto 1-A Navajo
Sec 21-T40N-R29E, Apache Co., #559

American Fuels Navajo B-1
Sec 9-T40N-R29E, Apache Co., #608

American Fuels Navajo C-1
Sec 6-T40N-R29E, Apache Co., #610

American Fuels Navajo E-1
Sec 31-T41N-R28E, Apache Co., #613

Cities Service Monsanto C-1 Navajo
Sec 16-T40N-R29E, Apache Co., #581

American Fuels Navajo M-1
Sec 16-T41N-R30E, Apache Co., #609

American Fuels Navajo O-1
Sec 3-T36N-R28E, Apache Co., #612

American Fuels Navajo AC-1
Sec 17-T40N-R29E, Apache Co., #615

On this date I contacted Thomas Lynch, Minerals Supervisor, Bureau of Indian Affairs, Window Rock, Arizona, regarding the wells drilled on the Reservation by American Fuels. Mr. Lynch informed me that all the leases on which American Fuels had drilled holes had reverted to the Navajo Tribe. The Tribe is considering leaving the wells in their present shut-in status and offering them for sale to the highest bidder. A final decision has not been made at this time.

Mr. Lynch also said that the Tribe was considering the pros and cons of producing the two Cities Service wells or offering them for sale.

Mr. Lynch requested that this office not bring any action against American Fuels for the time being. He will keep us informed of any decision or action taken by the Tribe.

*Plugged by
window rock
11-16-74*

Jennie Deden Behles, J.D.
Attorney At Law
Specializing in Bankruptcy Law

Linda S. Bloom, J.D.
Attorney At Law

December 20, 1978

1012 American Bank of Commerce Complex
200 Lomas, N.W.
Albuquerque, New Mexico 87102
Telephone (505) 243-9756

RECEIVED

DEC 26 1978

D & B CONS. COMM.

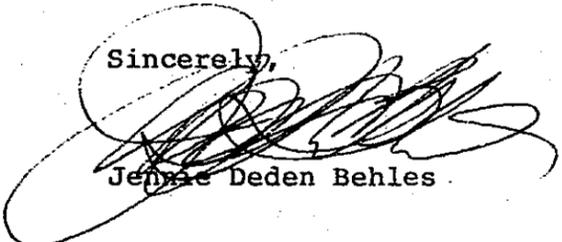
Oil and Gas Conservation Commission
State of Arizona
Attn: W. E. Allen
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Re: Chapter X Proceeding for Reorganization,
U.S. District Court, In the Matter of
American Fuels Corporation, Debtor
No. B75-894

Dear Mr. Allen:

Any money due to American Fuels Corporation should
be turned over to the Trustee in Bankruptcy, Mr. Mark
McFeeley at 200 West De Vargas, Santa Fe, New Mexico
87501. If you have any more questions, don't hesitate
to write.

Sincerely,


Jennie Deden Behles

mjs

610



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 271-5161

December 13, 1978

Ms. Jennie D. Behles
Smiley Professional Association
707 American Bank of Commerce Complex
200 Lomas NW
Albuquerque, New Mexico 87102

Re: Chapter X Proceeding for Reorganization,
U.S. District Court, In the Matter of
American Fuels Corporation, Debtor
No. B75-894

Dear Ms. Behles;

The Oil and Gas Conservation Commission of the State of Arizona holds a \$25,000 cash bond submitted to the Commission by American Fuels Corporation to insure their compliance with all of the Commission's rules and regulations.

Our question is this: Does any person, firm or corporation, other than the proper officers of American Fuels, have any claim on the monies being held by this Commission? If no person, firm or corporation has any claim on this money, is this Commission free to release the bond to the proper claimant?

Any information you may give us in this matter will be appreciated.

Very truly yours,

A handwritten signature in cursive script, appearing to read "W. E. Allen".

W. E. Allen
Director
Enforcement Section

WEA/vb

cc - Mark McFeeley
Trustee



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 271-5161

January 17, 1978

Mr. Jerry Blair
American Stratigraphic Company
6280 E. 39th Avenue
Denver, Colorado 80207

Dear Mr. Blair:

The following is a list of the wells I spoke to you about earlier today:

American Fuels Corp.	Navajo O #1	760' FNL & 1800 FWL	Sec. 3, T36N, R28E
"	"	Navajo B #1 2300' FWL & 660 FSL	Sec. 9, T40N, R29E
"	"	Navajo M #1 1775' FNL & 645 FSL	Sec. 16, T41N, R29E
"	"	Navajo C #1 760' FSL & 630 FWL	Sec. 6, T40N, R29E
"	"	Navajo AC#1 490' FNL & 500 FEL	Sec. 17, T40N, R29E
"	"	Navajo E #1 380' FSL & 1820 FWL	Sec. 31, T41N, R28E
Fee Oil & Gas Co.	Navajo #1	2310' FWL & 1650 FNL	Sec. 16, T40N, R28E

All of these wells are in Apache County, Arizona.

It is my understanding that Four Corners Sample Cut had cut all these well samples but were withholding the American Fuel samples because of non payment. Four Corners Sample Cut assured me that they would send us the samples from Fee Oil and Gas Company, however we never received them.

If you can assist this Commission in acquiring samples from these wells, it will be greatly appreciated.

Very truly yours,


W. E. Allen
Director
Enforcement Section

WEA/vb

610

SMILEY PROFESSIONAL ASSOCIATION

Attorneys at Law

707 American Bank of Commerce Complex, 200 Lomas NW
Albuquerque, New Mexico 87102
Telephone (505) 842-9707

July 8, 1975

Jennie Deden Behles, J. D.
Practice Primarily Limited to Bankruptcy Law

Thomas Smiley, J. D.
Of Counsel
Specializing in Bankruptcy Law

NOTICE TO CREDITORS AND STOCKHOLDERS OF AMERICAN FUELS CORPORATION:

Re: Chapter X Proceeding for Reorganization,
U. S. District Court, In the Matter of
American Fuels Corporation, Debtor.
No. B75-894

Dear Sirs:

This office, representing the debtor, filed a petition for reorganization under Chapter X as set forth above on July 7, 1975. According to information made available to us you are either a creditor of or shareholder in the debtor corporation. A hearing will be held in this matter not less than 30 nor more than 60 days after the approval of the Chapter X petition of which hearing you shall receive at least 30 days notice.

The District Judge has approved the Chapter X petition. Pursuant to §148 of the Act, the order approving the petition operates as a stay of any prior pending bankruptcy, mortgage foreclosure or equity receivership proceedings, and of any act or other proceeding to enforce a lien against the debtor's property. The Court has also approved an order staying the commencement or continuation of any suits against the debtor.

Any action taken in violation of the stay entered by the Court could operate to subject you to possible contempt proceedings and any such action would probably be considered null and void. Your attorney should be consulted in regard to these matters.

RECEIVED

JUL 2 1975

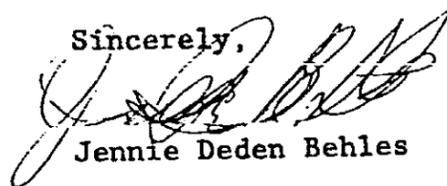
O & G CONS. COMM.

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Mark McFeeley has been appointed trustee in this proceeding.
His address is 319 Johnson Street, Santa Fe, New Mexico 87501.

Questions in regard to this proceeding should be addressed
to this office or to the office of the trustee. The officers
and directors of the debtor have no authority, without prior approval
of the Court and direction from the trustee, to operate the business
of the debtor, handle its affairs or make any arrangements with
its creditors or stockholders.

Sincerely,



Jennie Deden Behles

JDB:ng



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

March 28, 1975

Mrs. Jo Ratcliff
Four Corners Sample Cut Association
P. O. Box 899
Farmington, New Mexico 87401

Re: American Fuels Corporation Samples

Dear Mrs. Ratcliff:

Thanks for sending us a copy of your invoice billing American Fuels for cutting the samples from five of their six wells drilled in Arizona.

I have discussed the payment situation with everyone concerned including the Attorney General's Office in an effort to get you immediate payment and to allow us to receive the samples without a long wait. I find that this condition cannot dip into their bond on a "piece meal" basis. This would tend to put the Commission in the position of a collection agency.

About all I can promise you is that before American's bond is released, you will be paid for the samples.

I am sorry that we are unable to do any better but it seems this is it.

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/rlb

610

Four Corners Sample Cut Association

March 24, 1975

A Non-Profit Organization

P. O. BOX 899
FARMINGTON, NEW MEXICO 87401

Office: 641 West Broadway
Phone: 325-9232

American Fuels Corp.
2917 Carlisle Blvd. NE
Albuquerque, N.M. 87110

Date _____

STATEMENT

No. _____

No. _____

Operator	Well	Feet Cut	Date	No. Sample	@	Total
Am Fuels	#1 Nav. O	1163-3950		306	.10	30.60
Am Fuels	#1 Nav. O	1163-3950		306	.10	30.60
Am Fuels	#1 Nav. E	310-7635		701	.10	70.10
Am Fuels	#1 Nav. E	310-7635		701	.10	70.10
Am Fuels	#1 Nav. C	370-6535		702	.10	70.20
Am Fuels	#1 Nav. C	370-6535		702	.10	70.20
Am Fuels	#1 Nav. B	10-5865		589	.10	58.90
Am Fuels	#1 Nav. B	10-5865		589	.10	58.90
Am Fuels	#1 Nav. A C	530-6160		604	.10	60.40
Am Fuels	#1 Nav. A C	530-6160		604	.10	60.40
						<u>580.40</u>
Freight on above wells to Phoenix & Tucson 24.90						24.90
Total						\$605.30

RECEIVED
MAR 26 1975
O & G CONS. COMM.

610

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



January 10, 1975

CASPER, WYOMING

BOB FITZGERALD
PETR. BLDG. ARCADE
PHONE 234-6921

Office of Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Ave.
Phoenix, Arizona 85013

MIDLAND, TEXAS

DAVID CLARK
105 WEST WALL
PHONE 682-0981

Attn: Mr. Rhema Brandt

Gentlemen:

Please find enclosed logs from your letter of
December 16, 1974, lending to us prints.

We hope under separate cover of an earlier
package that you did receive all other logs from
that letter except set enclosed. If they have not been
received, please contact us at once.

Once again, thank you.

Sincerely,,

Char Kluge

Mrs. Char Kluge
Secretary to Ted Strickland

/ck

encs.

610

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



December 19, 1974

CASPER, WYOMING

BOB FITZGERALD
PETR. BLDG. ARCADE
PHONE 234-8921

Arizona Oil & Gas Conservation Commission
4515 North 7th Ave.
Phoenix, Arizona 85013

MIDLAND, TEXAS

DAVID CLARK
105 WEST WALL
PHONE 482-0551

Attention: Mrs. Rhema Brandt
Secretary to W. E. Allen
Director, Enforcement Section

Gentlemen:

Thank you for your courtesy and cooperation in loaning us the enclosed prints.

The logs on the #1 Navajo "E", 31-41N-28E, Permit #613, Gamma Ray-Neutron, Induction Electrol are not enclosed. We will, however, return this one when we are completed with them.

We will appreciate the opportunity to be of service at any time.

Very truly yours,

Char Kluge
Mrs. Char Kluge
Secretary to T. L. Strickland

/cak

Encls.

RECEIVED

DEC 27 1974

O & G CONS. COMM.

#610

December 16, 1974

Mr. Ted Strickland
Rocky Mountain Well Log Service Co.
1753 Champa Street
Denver, Colorado 80202

Dear Mr. Strickland:

As per your request of December 10, 1974, we are enclosing the following logs:

- #1 Navajo 'O', 3-26N-28E, Permit #612, Sidewall Neutron Porosity Log, Dual Induction-Laterolog, Compensated Formation Density Log (Gamma-Gamma)
- #1 Navajo 'M', 16-41N-30E, Permit #609, Cement Bond, Compensated Neutron-Formation Density
- #1 Navajo 'E', 31041N-28E, Permit #613, Gamma Ray-Neutron, Induction Electrolog
- #1 Navajo 'C', 6-40N-29E, Permit #610, Induction Electrolog, Gamma Ray Neutron
- #1 Navajo 'B', 9-40N-29E, Permit #608, Borehole Comp. Sonic Log, Comp. Formation Density Log (Gamma-Gamma), 2 Dual Induction-Laterolog with Linear Correlation, Compensated Formation Density Log (Gamma-Gamma)
- #1 Navajo 'AC', 17-40N-29E, Permit #615, Compensated Density Log, Induction-Electric Log

Please return these logs as soon as possible.

Very truly yours,

Mrs. Rhema Brandt
Secretary to W. E. Allen
Director, Enforcement Section

/r/b

Encs.

*Log returned Jan 75
610*

WPA

Rocky Mountain Well Log Service Co.

1753 Champa Street

266-0588 Area Code 303

DENVER, COLORADO

80202

BOB ANDREWS, Division Manager



December 10, 1974

CASPER, WYOMING

BOB FITZGERALD
PETR. BLDG. ARCADE
PHONE 234-8921

Arizona Oil & Gas Conservation Commission
4515 North 7th Ave.
Phoenix, Arizona 85013

MIDLAND, TEXAS

DAVID CLARK
101 WEST WALL
PHONE 682-0591

Gentlemen:

At your earliest convenience, would you please send us the following well logs:

American Fuels Corp.	
#1 Navajo 'O'	3-26N-28E #612
#1 Navajo 'M'	16-41N-30E 609
#1 Navajo 'E'	31-41N-28E 613
#1 Navajo 'C'	6-40N-29E 610
#1 Navajo 'B'	9-40N-29E 608
#1 Navajo 'AC'	17-40N-29E 615

Please find self-addressed envelopes enclosed for your convenience.

In advance, thank you.

Sincerely,

Ted Strickland
Ted Strickland

TLS:ck

Encls.

RECEIVED

DEC 13 1974

O & G CONS. COMM.

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OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

July 8, 1974

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Re: American Fuels B, C, AC, E, M & O

Dear Mr. Robinson:

This Commission has never received well samples from the above referenced wells. Please refer to Rule 119, Paragraph C of the Rules and Regulations of the Oil & Gas Conservation Commission, State of Arizona (copy of Rule 119 is attached).

We recently contacted the Four Corners Sample Cut in Farmington, New Mexico to determine the reason that our cut of the well sample had not been received. We were informed that Four Corner Sample Cut did have samples for all the above referenced wells except your Navajo M, however they will not release these samples until your firm has paid for services performed.

This letter is to advise you that one of your requirements to satisfy your bonding obligation is to furnish samples of all wells drilled as specified in the attached rule. Also be advised that this Commission has authority to draw against your cash bond as required in order to secure the desired sample sets.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.

Bec- 4 Corners

610



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271 5161

WHA

April 1, 1974

Mr. C. R. Robinson
American Fuels Corporation
2921 Carlisle Blvd., N.E., Suite 200
Albuquerque, New Mexico 87110

Re: Cities Service Monsanto 1-A Navajo Cities Service Monsanto C-1 Navajo
 Sec 21-T40N-R29E Sec 16-T40N-R29E
 Apache County, Permit #559 Apache County, Permit #581

Dear Mr. Robinson:

The above referenced wells at your request are being placed under your \$25,000 cash blanket bond.

To avoid confusion regarding the wells now covered by your \$25,000 bond, we are listing the following wells that this Commission shows to be under this bond. If the following inventory of wells agrees with your list, please sign and return one copy to this Commission.

- | | |
|--|--|
| Cities Service Monsanto 1-A Navajo
Sec 21-T40N-R29E, Apache Co., #559 | Cities Service Monsanto C-1 Navajo
Sec 16-T40N-R29E, Apache Co., #581 |
| American Fuels Navajo B-1
Sec 9-T40N-R29E, Apache Co., #608 | American Fuels Navajo M-1
Sec 16-T41N-R30E, Apache Co., #609 |
| American Fuels Navajo C-1
Sec 6-T40N-R29E, Apache Co., #610 | American Fuels Navajo O-1
Sec 3-T36N-R28E, Apache Co., #612 |
| American Fuels Navajo E-1
Sec 31-T41N-R28E, Apache Co., #613 | American Fuels Navajo AC-1
Sec 17-T40N-R29E, Apache Co., #615 |
| American Fuels Navajo B-2
Sec 10-T40N-R29E, Apache, #621 | |

Very truly yours,

W. E. Allen
W. E. Allen, Director
Enforcement Section

WEA/rlb

APPROVED

By *[Signature]*

Date April 12, 1974

RECEIVED

MAY 10 1974

O & G CONSERVATION



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

April 1, 1974

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Re: Cities Service Monsanto 1-A Navajo Cities Service Monsanto C-1 Navajo
 Sec 21-T40N-R29E Sec 16-T40N-R29E
 Apache County, Permit #559 Apache County, Permit #581

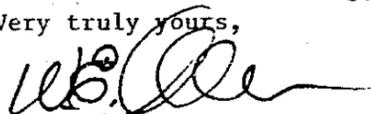
Dear Mr. Robinson:

The above referenced wells at your request are being placed under your \$25,000 cash blanket bond.

To avoid confusion regarding the wells now covered by your \$25,000 bond, we are listing the following wells that this Commission shows to be under this bond. If the following inventory of wells agrees with your list, please sign and return one copy to this Commission.

Cities Service Monsanto 1-A Navajo Sec 21-T40N-R29E, Apache Co., #559	Cities Service Monsanto C-1 Navajo Sec 16-T40N-R29E, Apache Co., #581
American Fuels Navajo B-1 Sec 9-T40N-R29E, Apache Co., #608	American Fuels Navajo M-1 Sec 16-T41N-R30E, Apache Co., #609
American Fuels Navajo C-1 Sec 6-T40N-R29E, Apache Co., #610	American Fuels Navajo O-1 Sec 3-T36N-R28E, Apache Co., #612
American Fuels Navajo E-1 Sec 31-T41N-R28E, Apache Co., #613	American Fuels Navajo AC-1 Sec 17-T40N-R29E, Apache Co., #615
American Fuels Navajo B-2 Sec 10-T40N-R29E, Apache, #621	

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/rlb

610



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

March 13, 1974

Ms. Barbara Cunningham
American Fuels Corporation
2921 Carlisle Boulevard, N.E.
Suite 200
Albuquerque, New Mexico 87110

Re: American Fuels Navajo AC, E, O, C, & M

Dear Ms. Cunningham:

You are correct, permission has been given to maintain the above referenced wells in a temporarily abandoned status until July 1, 1974. We are sorry for our recent statement that this status would expire March 15, 1974.

Please refer to our letter of December 18, 1973 to Mr. Daroyl Curry. This office still needs the information on the drill stem tests on your Navajo B and Navajo M wells. We would appreciate receiving this information as soon as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

610

American Fuels Corporation

TELEPHONES
(505) 345-3507
(505) 345-5518

SUITE 200
2921 CARLISLE BOULEVARD, N. E.
ALBUQUERQUE, NEW MEXICO 87110

March 12, 1974

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention: Mr. W. E. Allen, Director
Enforcement Section

Dear Sir:

Pursuant to our phone conversation of last week we are enclosing a copy of your letter dated December 18, 1973, which grants AFCo permission to maintain its Navajo AC, E, O, C, & M wells in a temporarily abandoned status until July 1, 1974.

It was our understanding last week that the Commission needed, in writing, our plans and proposals for those wells because the permission as stated above expired on March 15, 1974. If the enclosed letter has been pre-empted and the date moved up to March 15 we cannot find a record of it in our files. Also, if the date of July 1 is correct but the letter you requested last week is still necessary please let us know. As of the moment, we are assuming it will not be necessary until July 1.

Please do not hesitate to contact us if we can be of any assistance in expediting this matter.

Very truly yours,



Barbara Cunningham
Secretary to C. R. Robinson

BAC/s

RECEIVED

MAR 13 1974

023013 0000

610

WA

American Fuels Corporation

TELEPHONES
(505) 345-3507
(505) 345-5518

SUITE 200
2921 CARLISLE BOULEVARD, N. E.
ALBUQUERQUE, NEW MEXICO 87110

February 15, 1974

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Ave
Phoenix, Arizona

Attention: Mr. W. E. Allen, Director
Enforcement Section

Dear Sir:

We are in receipt of your letter of February 13, 1974, regarding our delinquency in the filing of production reports to your office. Mr. Allen, we have had a large turnover in personnel, both here in our office and in our personnel in the field. Although this is no excuse for the reports being delinquent, it has caused a certain amount of confusion and many things have gotten lost in the shuffle.

We have just recently become aware that these reports have been late and we have been working quite closely with Mr. John Sicily in the Accounting Department of the U.S.G.S. office in Roswell, N.M. to bring our files and accounts up-to-date. We expect to have them so by the end of next week.

This same problem is what has caused the delay in the December report. This report will also be taken care of by the end of next week, barring any unforeseen complications.

We also intend in the future to have someone designated to oversee and coordinate the contributors to these reports so that they will be submitted on a timely basis.

We thank you for your indulgence. If we can be of any further assistance, please do not hesitate to contact us.

Very truly yours,

Barbara Cunningham
Barbara Cunningham
Secretary to C. R. Robinson

RECEIVED

BAC/s

FEB 15 1974
O & G CON. COMM.

Regarding reports E. # 1008

660

February 13, 1974

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Dear Mr. Robinson:

In recent months it has been necessary for this Commission to repeatedly request the submission of routine information from your company. For example, as you well know, production reports are due to reach this office no later than the 25th of the month following the month of production. We have called your office twice recently for December's report and as yet this report has not been received. Nor was anyone available in your office to advise us orally of the amount of production for the month of December.

While this office does not wish to work a hardship on any operators within the State, we must insist that each operator adhere to the rules and regulations of the Oil and Gas Commission.

Furthermore, we refer you to Arizona Revised Statute 27-527 which stipulates penalties on operators who fail to submit the required reports.

We request your cooperation in the timely filing of the required reports.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.

bld



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

January 21, 1974

Ms. Kay Waller
Petro-Well Libraries Inc.
150 Security Life Building
1616 Glenarm Place
Denver, Colorado 80202

Re: November - January Current File Material

Dear Kay:

Enclosed you will find the following current material for November through January:

Completion Report on File #443 - Kerr-McGee Navajo No. 3

Completion Report on File #608 - American Fuels "B"
Logs - Sidewall Neutron Porosity, Compensated Formation Density,
Borehole Compensated Sonic and Dual Induction-Laterolog

Completion Report on File #609 - American Fuels "M"
Logs - Cement Bond and Compensated Neutron-Formation Density

Completion Report on File #610 - American Fuels "C"
Logs - Gamma Ray Neutron and Induction Electrolog

Completion Report on File #612 - American Fuels "O"
Logs - Compensated Formation Density, Dual Induction-Laterolog
and Sidewall Neutron Porosity

Completion Report on File #613 - American Fuel "E"
Logs - Induction Electrolog and Gamma Ray-Neutron

Completion Report on File #615 - American Fuels "AC"
Logs - Induction-Electric and Compensated Density

Kay, aren't you glad you're not in Montana this winter?

Very truly yours,

Rhema Brandt
Rhema Brandt

/rlb

Encs.

660



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

December 18, 1973

Mr. D. R. Curry
Curry Engineering
P. O. Box 5596
Midland, Texas 79701

Re: American Fuels Navajo AC, E, O, G, & M

Dear Mr. Curry:

By this letter we are granting American Fuels Corporation permission to maintain the above referenced wells in a temporarily abandoned status until July 1, 1974.

Should the status of these well change at any time during this period, please advise this Commission of the change and outline any work performed.

Please furnish this Commission with the information requested on drill stem testing on the Navajo B and Navajo M wells.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

cc - C. R. Robinson

60



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

November 13, 1973

Mr. D. R. Curry
Curry Engineering
P. O. Box 5596
Midland, Texas 79701

Re: American Fuels Navajo AC-1, B-1, E-1, O-1, C-1, M-1

Dear Mr. Curry:

Please refer to our letter of October 25, 1973 requesting various information on the above referenced wells. Unless the requested information can be furnished to this Commission immediately, we will have to formally request that you show cause why certain of these wells should not be plugged and abandoned.

This Commission has no desire to work a hardship on American Fuels, however, we must insist upon complete compliance with our Rules and Regulations. A copy of the October 25 letter is enclosed.

Your cooperation in this matter will be appreciated.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.

cc - American Fuels
Albuquerque

6/0



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

October 25, 1973

Mr. Darrel Curry
Curry Engineering
P. O. Box 5596
Midland, Texas 79701

Re: Am. Fuels Navajo AC-1 NE/NE Sec 17-T40N-R29E Apache County Permit No. 615	Am. Fuels Navajo E-1 SE/SW Sec 31-T41N-R2SE Apache County Permit No. 613	Am. Fuels Navajo C-1 SW/SW Sec 6-T40N-R29E Apache County Permit No. 610
Am. Fuels Navajo B-1 SE/SW Sec 9-T40N-R29E Apache County Permit No. 605	Am. Fuels Navajo O-1 NE/NW Sec 3-T36N-R2SE Apache County Permit No. 612	Am. Fuels Navajo M-1 SE/SW Sec 16-T41N-R30E Apache County Permit No. 609

Dear Mr. Curry:

Thanks for the logs you have recently sent us on three of the above referenced wells. We believe that you have run cased hole or correlation logs on these wells. The only cased hole logs that have been submitted to this Commission has been on the Navajo C-1. We need copies of all logs on all wells including lithologic logs.

Your request to leave the Navajo E, O, M wells in a temporarily abandoned status will be granted, however, this Commission must have a completion report on these three wells and also on your Navajo C & AC wells. The request for these completion reports is made fully understanding that further completion attempts may be made in the future.

Needed also are the complete results of the Drill Stem Test on the Navajo B and the same information on DST No. 1 and No. 3 on your Navajo M.

As quickly as the completion reports on the above referenced wells - except the Navajo B - are received, we will authorize these wells to be classified

6/10

October 25, 1973
Mr. Darrel Curry
Page 2

temporarily abandoned for a six month period.

The above requested information should be submitted as quickly as possible.

Very truly yours,



W. E. Allen, Director
Enforcement Section

WEA/rlb

cc - Carl Robinson

Encs.

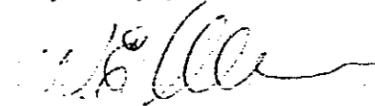
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October 25, 1973
Mr. Darrel Curry
Page 2

temporarily abandoned for a six month period.

The above requested information should be submitted as quickly as possible.

Very truly yours,



W. E. Allen, Director
Enforcement Section

WEA/rlb

cc - Carl Robinson

Encs.

610

CURRY ENGINEERING

MIDLAND, TEXAS 79701
323 MID-AMERICA BUILDING
P. O. BOX 5596 AC 915 682-2031

23 Oct 73

MAX E. CURRY
DAROYL R. CURRY

Re: Your letter of 12 Oct 73

Mr. W. E. Allen, Director
Enforcement Section
ARIZONA OIL & GAS CONSERVATION COMM.
4515 North 7th Avenue
Phoenix, Arizona

Dear Sir:

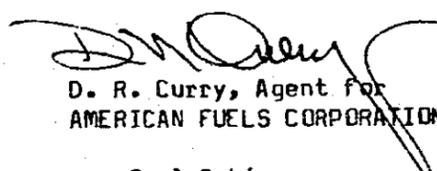
Enclosed are copies of the logs run on the AMERICAN FUELS CORPORATION
Navajo "AC" no. 1, Navajo "E" no. 1, and the Navajo "C" no. 1.

The formation tops on the Navajo "E" no. 1 are as follows:

Upper Ismay	6520 KB (+77)
Lower Ismay	6586 KB (+12)
Desert Creek	6665 KB (-68)
Akah	6833 KB (-236)
Barker Creek	7028 KB (-430)
Lower Hermosa	7216 KB (-619)
Molas	7480 KB (-883)
Mississippian	7584 KB (-987)

Please let me know if you need anything else in this regard.

Yours very truly,


D. R. Curry, Agent for
AMERICAN FUELS CORPORATION

cc: Carl Robinson

RECEIVED

OCT 24 1973
O & G CONSERV. COMM.



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

October 12, 1973

Mr. Darrel Curry
Curry Engineering
P. O. Box 5596
Midland, Texas 79701

Re: American Fuels Navajo "AC" #1 American Fuels Navajo "E" #1
NE/NE Sec 17-T40N-R29E SE/SW Sec 31-T41N-R28E
Apache County Apache County
Permit No. 615 Permit No. 613

American Fuels Navajo "C" #1
SW/SW Sec 6-T40N-R29E
Apache County
File No. 610

Dear Mr. Curry:

Will you please send this office the logs on the above referenced wells as quickly as possible.

We have also previously requested the formation tops on the Navajo "E" #1 well.

We are attaching for your information a copy of a recent letter addressed to Mrs. Macaw.

We will certainly appreciate receiving the above information as quickly as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b
Enc.

cc - American Fuels, Albuquerque

610



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

August 6, 1973

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Dear Mr. Robinson:

We have received your Monthly Producer's Report for April, May, June and July. The Field in which your Navajo B, C, and AC is the Black Rock Pennsylvanian instead of Wildcat as you have shown on your report.

Very truly yours,

W. E. Allen, Director
Enforcement Section

Rhema Brandt
Mrs. Rhema Brandt
Secretary to W. E. Allen

6/2

WA
RESIDENCE PHONE: 825-2188
Area Code 505

Mailing Address:
P. O. Box 94
FARMINGTON, NEW MEXICO 87401

HAROLD H. BROWN

Consultant in Petroleum Geology

OFFICE PHONE: 825-4900 • PETROLEUM PLAZA BLDG.
FARMINGTON, NEW MEXICO 87401

July 27, 1973

Mr. W. E. Allen
Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Allen:

Attached is a list of formation tops for ^{some of} the various wells drilled to date by American Fuels Corporation in the state of Arizona.

Very truly yours,

Harold H. Brown

Harold H. Brown

HHE/sj

RECEIVED

AUG 6 1973

O & G CONS. COMM.

610



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

July 23, 1973

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Dear Mr. Robinson:

Some time ago we gave Mr. Curry permission to sell oil from your "B" lease to the Permian Corporation. This was a one time or temporary authority to move the oil. It will be necessary for your company to file a Certificate of Compliance (Form 8) with this Commission and also we will require Monthly Producers Reports (Form 16) for the month of June and each month thereafter so long as this well is being produced.

The Certificate of Compliance and Production Reports will be required for each lease as they are brought into production and the products are disposed of.

Some of the wells you have drilled in Arizona are permitted as an oil location. If any of these wells should prove to be a gas well, that is with GOR higher than 50,000 to 1, they will be declared gas wells by this Commission and a hearing will be required prior to producing these wells.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

Encs.

610



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

July 17, 1973

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd., N.E.
Albuquerque, New Mexico 87110

Dear Mr. Robinson:

Our Geological Staff is presently in the process of making various studies of the general area in which you are operating. It would be very helpful to them if the formation tops of the wells you have drilled were made available to them.

If you will furnish this Commission with these tops, be assured that this information will be kept in complete confidence during the confidential period of your wells.

This information will be appreciated.

Very truly yours,


W. E. Allen, Director
Enforcement Section

WEA/rlb

610

American Fuels Corporation

TELEPHONES
(505) 345-3507
(505) 345-5518

SUITE 200
2821 CARLISLE BOULEVARD, N. E.
ALBUQUERQUE, NEW MEXICO 87110

June 3, 1973

Mr. John Bannister
Arizona Oil & Gas Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Bannister:

Our auditors, Hopkins & Hinkle, are making an examination of our financial statements and, in this connection, request you to confirm directly to them deposits held by you.

According to our records at May 31, 1973, you are holding oil and gas lease bond deposits amounting to \$25,000.

Please compare the above information with your records and advise Hopkins & Hinkle, in the space provided below, whether the above is correct noting any differences thereon. We have enclosed a self-addressed envelope for your convenience.

Sincerely,

Jack H. Evans

Jack H. Evans
Secretary-Treasurer

RECEIVED

JUN 04 1973

O & G CONS. COMM.

Hopkins & Hinkle:
223 Citizens Bank Bldg.
2500 Louisiana Blvd., N.E.
Albuquerque, New Mexico 87110

The above information is correct as of May 31, 1973,
~~except as follows~~ *W&H Co*

Date: *6-6-73* Signature *W.H. Allen*
for J.B.

RECEIVED

JUN 04 1973

O & G CONS. COMM.

AMERICAN FUELS CORPORATION
2921 Carlisle Blvd., N.E. • Albuquerque, New Mexico 87110
(505) 345-3507

May 2, 1973

Mr. John Bannister
Arizona Oil & Gas Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Sir:

Siecke, Newman & Co., Inc., 1776 Lincoln, Denver, Colorado, 80203, are making their usual examination of our accounts and we shall be obliged, therefore, if you will kindly confirm to them that you are holding a \$15,000 oil and gas lease bond deposit.

Yours truly,

[Handwritten Signature]
AMERICAN FUELS CORPORATION

Correct ✓ Incorrect _____
(If incorrect, please explain difference)

Signature John Bannister, Exec. Sec.

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
4515 N. 7TH AVE.
PHOENIX, ARIZONA 85013

6/6

April 24, 1973

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd. N. E.
Albuquerque, New Mexico 87110

Re: American Fuels Wells - Apache County

Dear Mr. Robinson:

We wish to call your attention to Rule 105 of the Rules and Regulations of the Oil and Gas Conservation Commission. The wells that you have drilled, or are in the process of drilling, for oil have been drilled on an approved oil unit which consists of 80 contiguous acres. Should these wells be successfully completed as gas wells, they would then be on an unorthodox spacing pattern and would require approval of the Commission at a public hearing before you would be allowed to produce them.

It is our opinion that the above hearing would be a formality only and approval of the Commission would be forthcoming, however, we cannot speak for our Commissioners and we have no idea of what objections other operators might voice.

We are calling your attention to this rule, Mr. Robinson, only for the reason that we thought it might have been overlooked by you or your company.

Should you have any questions regarding this, please do not hesitate to call on us.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

616

April 24, 1973

Mrs. Jo Ratcliff
Four Corners Sample Cut Association
P. O. Box 899
Farmington, New Mexico 87401

Re: American Fuels Navajo "C" #1
SW/SW Sec 6-T40N-R29E
Apache County
File No. 610

Dear Mrs. Ratcliff:

The above referenced permit was issued since March 26, 1973.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

610

April 24, 1973

Mr. Frank Getscher
P. O. Box 98
Scottsdale, Arizona 85252

Dear Mr. Getscher:

The following permit was issued April 24, 1973.

American Fuels Corporation
Navajo "C" #1
SW/SW Sec 6-T40N-R29E
Apache County
File No. 610

The proposed total depth is 5600' and the elevation is 5583'.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

610

April 24, 1973

Mr. C. R. Robinson
American Fuels Corporation
2917 Carlisle Blvd. N. E.
Albuquerque, New Mexico 87110

Re: American Fuels Corporation Navajo "C" #1
SW/SW Sec 6-T40N-R29E
Apache County
File No. 610

Dear Mr. Robinson:

Enclosed please find Receipt No. 2950 covering the \$25 filing fee, a copy of your approved Application for Permit to Drill and Permit to Drill No. 610.

Also enclosed are miscellaneous instruction sheets concerning samples and other Commission requirements.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

Enca.

610

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual

Harken Southwest Corporation

Post Office Address (Box or Street Address)

P. O. Drawer 612007, Dallas, TX 75261 -or- 2505 N. Hwy 360, Suite 800, Grand Prairie, TX

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)

Corporation

75050

Purpose of Organization (State type of business in which engaged)

Oil & Gas Exploration

If a reorganization, give name and address of previous organization.

Changed name from Chuska Energy Company

If a foreign corporation, give
(1) State where incorporated

Nevada

(2) Name and post office address of state agent
Corporation Service Co.
530 South 4th Street
Las Vegas, Nevada 89101

(3) Date of permit to do business in state

1980

Principal Officers or Partners (if partnership)
NAME

Mikel D. Faulkner

TITLE

Chairman of the Board
Chief Executive Officer

POST OFFICE ADDRESS

P. O. Drawer 612007
Dallas, TX 75261

Richard Schroeder

President
Chief Operating Officer

" "

Bruce Huff

Senior Vice President
Chief Financial Officer

" "

Larry Cummings

Vice President
General Council

" "

DIRECTORS NAME

POST OFFICE ADDRESS

/ All of the above

P. O. Drawer 612007, Dallas, TX 75261

Don Raymond

P. O. Drawer 612007, Dallas, TX 75261

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Administrator of the Harken Southwest Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Rachelle L. Montgomery

Date 6/24/94

Date



<p>STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION</p> <p>Organization Report File One Copy</p> <p>Form No. 1</p>
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