

JAY M. SHIELDS 1-24 FEDERAL
NW SE 24-41N-1W COCONINO CO.

715

RECEIVED

JAN 20 1982

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

O & G CONS. COMM.

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

DESCRIPTION OF WELL AND LEASE

Operator: JAY M. SHIELDS Address: 320 Bellino Dr., Pacific Palisades, CA 90272

Federal, State or Indian Lease Number or name of lessor if fee lease: Federal #A-10457 Well Number: SF #1-24 Field & Reservoir: White Sage Prospect

Location: NW 1/4 SW 1/4 Sec 24, T41N-R1W County: Coconino

Sec TWP-Range or Block & Survey: 24, 41N, 1 W G&SRBM

Date spudded: 11/19/80 Date total depth reached: 1/27/81 Data completed, ready to produce: Elevation (D.P., H.C.P., RT or Gr.): 5062 WD Elevation of casing hd. Range: 5066

Total depth: 482 P.B.T.D.: 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: NONE Rotary tools used (interval): 0 - 482' Cable tools used (interval):

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

Type of electrical or other logs run (check logs filed with the commission): SAMPLE LOG ONLY (Attached) Date filed:

CASING RECORD

Table with 7 columns: Purpose, Size hole drilled, Size casing set, Weight (lb./ft.), Depth set, Sacks cement, Amt. pulled. Rows for Surface and Compl.

TUBING RECORD

LINER RECORD

Table with 8 columns: Size, Depth set, Packer set at, Size, Top, Bottom, Sacks cement, Screen (ft.).

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZER RECORD

Table with 4 columns: Number per ft., Size & type, Depth Interval, Amt. & kind of material used, Depth Interval.

INITIAL PRODUCTION

Date of first production: NONE Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):

Date of test: Continuous Hrs. tested: Choke size: Oil prod. during test: Gas prod. during test: Water prod. during test: Oil gravity: API (Corr):

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

Disposition of gas (state whether vented, used for fuel or sold): NONE

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the OWNER of the LEASE BLOCK (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.

January 15, 1982

Signature: Jay M. Shields

Form No. 4

712

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy

DETAIL OF FORMATIONS PENETRATED

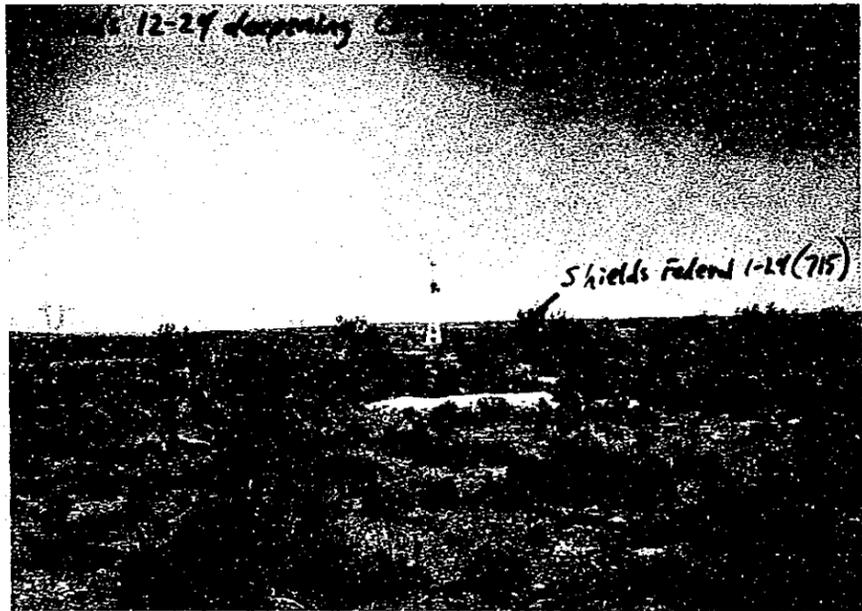
Formation	Top	Bottom	Description
<u>TRIASSIC</u>			
Timpoweap Member-Moenkopi Formation	0'	110'	Limestone, cherty in part
<u>PERMIAN</u>			
Kaibab Formation	110'	400'	Limestone, chert, dolomite, ss
White Sage (Gamma) Member	400'	482'	Dolomite, siltstone, gypsum, anhydrite
Cored	456½'	466½'	Very fine grain tan brown dolomite - stringers, lozenges and thin beds of black shale, anhydrite, gypsum and gypsiferous siltstone. Oil stained, good brown cut and strong oil odor. Dolomite porosity
Cored	466½'	470½'	
Drilled	470½'	482'	Hard light grey gypsiferous siltstone. Tite. Stringers of black shale.
			Siltstone, anhydrite, tan brown dolomite (477'-480') as above. Sandstone (480'-482-) mostly fine grain, tan grey, no cut or odor.

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion 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 & Gas Conservation Commission not later than thirty days after project completion.



12-29 deepening

Shields Federal 1-29 (715)

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JAN 4 1982

PLUGGING RECORD

Operator Jay M. Shields		Address 320 Bellino Dr., Pacific Palisades, CA 91024			
Federal, State, or Indian Lease Number, or lessor's name if fee lease Federal #A-10457		Well No. SF 1-24	Field & Reservoir White Sage Prospect		
Location of Well 1980' from E line & 2130' from S line of		Sec-Twp-Rge or Block & Survey 24 41N-R1W G&SRBM		County Coconino	
Application to drill this well was filed in name of Jay M. Shields	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbbls/day) ----- Gas (MCF/day) -----			Dry? Yes
Date plugged: 12/30/81	Total depth 479'	Amount well producing when plugged: Oil (bbbls/day) ----- Gas (MCF/day) -----			Water (bbbls/day) -----
Name of each formation containing oil or gas. Indicate which formation open to well-bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement		
Kaibab formation	Oil & Water	457' - 465'	Cement plug 330'-479'		
CASING RECORD					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
7"	80'	none	80'	-----	Surface CSG
4 1/2"	479'	none	479'	-----	Completion CSG
Was well filled with mud-laden fluid, according to regulations? Filled with cement - top & bottom			Indicate deepest formation containing fresh water. None		
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE					
Name	Address		Direction from this well:		
Unknown - None within two miles of well.					
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.					
Federal Lands - No water produced					
Use reverse side for additional detail.					
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Owner-Operator</u> of the <u>Subject lease & well</u> (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.					
Date 12/30/81	Signature Jay M. Shields				
Permit No. 715	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy				
			Form No. 10		

TD

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other Exploratory Test

2. NAME OF OPERATOR
Jay M. Shields

3. ADDRESS OF OPERATOR
320 Bellino Drive, Pacific Palisades, CA 90272

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2130'N & 1980'W of SE corner of
AT TOP PROD. INTERVAL: Section 24
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(other)		

5. LEASE
A-10457

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Shields Federal

9. WELL NO.
#1-24

10. FIELD OR WILDCAT NAME
White Sage Prospect

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24, T41N-R1W, G&SRBM

12. COUNTY OR PARISH | 13. STATE
Coconino | Arizona

14. API NO.
02-005-20013

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5062 WD

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Reference your letter of August 6, 1981 approving my proposal to abandon the subject well, I have followed the plugging stipulations as outlined and noted below and will abide by the abandonment stipulations in your letter of 11/5/80.

- 1) Plugging operations completed on 12/30/81
- 2) 7" csg cemented @ 80'. 4 1/2" csg cmtd @ 479' TD. Perfs 4/ft 457' - 465'.
- 3) Bottom cmt plug from TD to 330' (over 100' above top perf @ 457')
- 4) Top plug cmtd from 50' to surface.
- 5) Well marker as specified.

18. I hereby certify that the foregoing is true and correct cc Arizona Oil & Gas Conservation Commission

SIGNED Jay M. Shields TITLE Operator DATE December 30, 1981
(This space for Federal or State office use)

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

RECEIVED

JAN 4 1982

O & G CONS. COMM.

715

APPLICATION TO ABANDON AND PLUG

FIELD WILDCAT 90272
 OPERATOR JAY M. SHIELDS ADDRESS 320 BELLINO DR., PACIFIC PALISADES, CA
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Federal #A - 10457 WELL NO SHIELDS FEDERAL#1-24
 LOCATION 1980' from east line and 2130' from south line of Section 24 T41N-R1W,
G&SRBM
 TYPE OF WELL DRY HOLE TOTAL DEPTH 482'
(Oil, Gas or Dry Hole)
 ALLOWABLE (If Assigned) _____
 LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
 GAS _____ (MCF) DATE OF TEST _____
 PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD.

7 5/8" surface casing set at 80' and cemented to surface. 4 1/2" - 9 1/2# line pipe cemented by Halliburton at 479' with 90 sax cement. No returns to surface. Later cemented (2 yds) around casing from surface.

Perforated 457' - 465' (4 shots/foot)

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 SEP 16 1981
 O & G CONS. COMM.

2. FULL DETAILS OF PROPOSED PLAN OF WORK

In accord with State & Federal Regulations:

- 1) Cement plug from TD to 100' above perforations- 357'
- 2) Cement plug, 50' at surface.
- 3) 4" pipe set 6' into hole with cement and extending 4' above GL. Pipe will show a) Well Name; b) Location (1/4 Sec. Township & Range); c) Arizona drilling permit number.

DATE COMMENCING OPERATIONS OCTOBER - NOVEMBER
 NAME OF PERSON DOING WORK JIM WILLIAMS DRLG. CO. ADDRESS 737 3rd St., Prescott, AZ
 Signature Jay M. Shields
 OPERATOR - LESSEE
 Title _____
 Address 320 BELLINO DRIVE, PACIFIC PALISADES, CA 90272
 Date SEPTEMBER 15, 1981

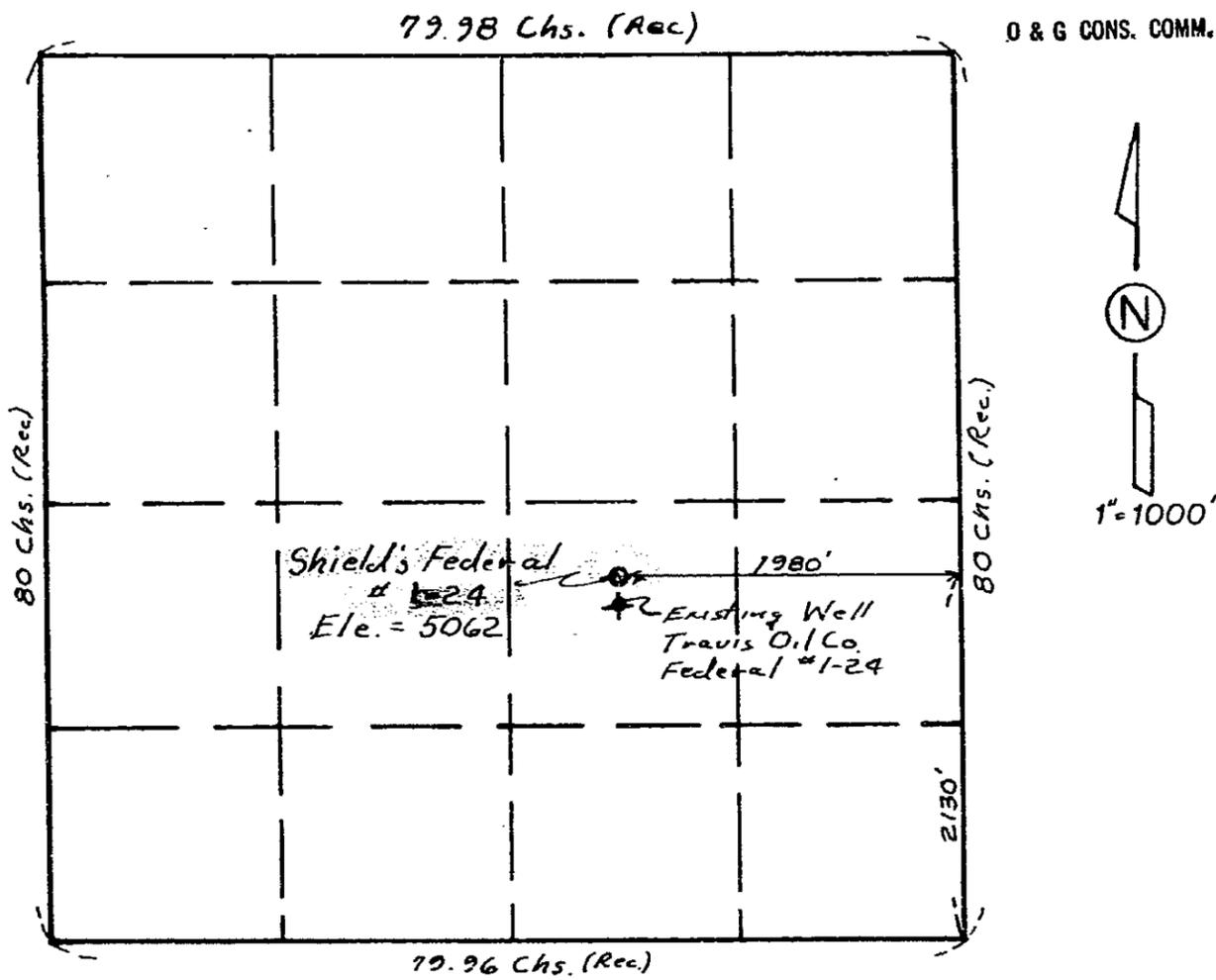
Date Approved 9-17-81
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: [Signature]

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 File Two Copies
 Form No. 9

Permit No. 715

OIL WELL LOCATION
 SEC. 24, T41N, R1W, G & S.R.B. & M., ARIZONA

RECEIVED
 SEP 16 1981
 O & G CONS. COMM.



I, Kenneth J Brown, do hereby certify that the location of the well shown hereon was made under my supervision at the request of Jay M. Shields. Said well, known as Shield's Federal #2-24, is 2130 feet North, and 1980 feet West, from the S.E. Cor. of Sec. 24, T41N, R1W, G & S.R.B. & M., Coconino County, Arizona.

July 28, 1980

Kenneth J. Brown
 REGISTERED LAND SURVEYOR
 ARIZONA
 KENNETH J. BROWN
 411651

715

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Form Approved
Budget Bureau No. 42-R142

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AUG 10 1981
O & G CONS.

LEASE
A-10457
COMM. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different formation. Use Form 9-331-C for such proposals.)

1. oil well gas well other **Exploratory Test**

2. NAME OF OPERATOR

Jay M. Shields

3. ADDRESS OF OPERATOR 320 Bellino Drive
Pacific Palisades, CA 90272

4. LOCATION OF WELL (REPORT LOCATION CLEARLY FOR THE FIELD OFFICE)

1110' N & 1930' W of SE
corner of Section 24, T11N-R1W, G&SRBM

APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other)	<input checked="" type="checkbox"/>	Request to abandon when drilling rig on location	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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

7/31/81: As per former sundry notices, the subject well was drilled to 456 1/2', cored to 470 1/2' and deepened to 482' TD. Surface csg was cemented at 80'. 4 1/2" csg was cemented at 479' with no returns to surface. Later, cmt was poured thru annulus and 4 1/2" csg cmtd to surface. Csg was perforated 457" - 470" with 4 shots/foot. Well is currently closed in. 465' JW

In discussion with Mr. A. K. Doss, Secretary, Arizona Oil & Gas Conservation Commission, abandonment procedure is to be as follows: 1) 50' plug cmt at bottom. 2) 20' plug at surface, and 3) a 4' marker pipe.

It is my intention to resume drilling operations as soon as possible (approx 60 days) and request your approval to P&A the SF #1-24 Well at that time.

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

SIGNED Jay M. Shields TITLE Operator DATE 7/31/81

(This space for Federal or State office use)

APPROVED BY J. P. Wagner TITLE District Supervisor DATE August 6, 1981

SEE STIPULATIONS

cc: DCM, O&G, Western Region *See Instructions on Reverse Side
Oil & Gas Conservation Commission
Phoenix, Arizona



SEE ATTACHED CONDITIONS AND REQUIREMENTS

715

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MAY 29 1981

Form 9-331
Dec 1973

Form Approved
Budget Bureau No. 42-R1474

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
O & G CONS. COMM.

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 Form 9-331-C for such proposals.)

1. oil well gas well other Exploratory Test

2. NAME OF OPERATOR
JAY M. SHIELDS

3. ADDRESS OF OPERATOR
90272
320 Bellino Dr., Pacific Palisades, CA

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2130'N & 1980'W of SE corner
AT TOP PROD. INTERVAL: of Section 24
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
A*10157

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
SHIELDS FEDERAL

9. WELL NO.
#1-24

10. FIELD OR WILDCAT NAME
WHITE SAGE PROSPECT

11. SEC., T., R., M., OR BLK. AND SURVEY OR
Sec 24, T41N - R1W, G&SRBM

12. COUNTY OR PARISH
COCONINO

13. STATE
ARIZONA

14. API NO.
02 - 005 - 20013

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5062 WD - 5065 KDB & DF

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Well Completion Report

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

- 2/20/81 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates.
Cluff Drlg: Broke away cmt plug between 7-5/8" surf csg and 4-1/2" csg. Noticed blow of gassy & acidy air. Poured 1000 gals tracer water down annulus. Opened valve on 4-1/2". Noted blow with gassy odor. Bailed 4-1/2". Rec 6 gals water. No tracer water.
- 2/21/81 Cluff Drlg: Reported air sucking into annulus.
- 2/22-23/81 Shut-in. Decision to cement annulus from top.
- 2/24/81 Cluff Drlg: Reported some gas odor in 4-1/2". Ready mix cmt truck poured 2+ cubic yards const cmt plus 5% sand. Filled to surface. Estimate used sufficient cmt to fill between csg and hole to TD @ 479'.
- 2/25/81 Cluff Drlg: Checked well. Bailed a few gals water. No tracer. No cmt. No acid. Shut-in.
- 2/26/81 Agent at well. Opened valve. No flow or odor. Shut-in.
- 2/27/78 Cluff Drlg: Final check. Bailed a little water. Will move cable tool rig off loc.
- 3/2/81 Shut-in. Request well be left as is for observation. Valve on 4-1/2" casing is closed.
- 3/3/81

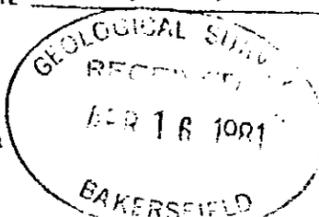
16. I hereby certify that the foregoing is true and correct

SIGNED _____ TITLE _____ DATE 11/15/81

(This space for Federal or State office use)
APPROVED BY J.P. Wagner TITLE Dist. Supervisor DATE 5-22-81
CONDITIONS OF APPROVAL, IF ANY J.P. Wagner District Supervisor

715
WA

*See Instructions on Reverse Side
cc: Oil & Gas Conservation Commission, Phoenix, Arizona



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APR 20 1981

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS. COMM.

5. LEASE A*10157

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
SHIELDS FEDERAL

9. WELL NO.
#1-24

10. FIELD OR WILDCAT NAME
WHITE SAGE PROSPECT

11. SEC., T., R., M., OR BLK. AND SURVEY OR
Sec 24, T41N - R1W, G&SRBM

12. COUNTY OR PARISH | 13. STATE
COCONINO | ARIZONA

14. API NO.
02 - 005 - 20013

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5062 WD - 5065 KDB & DF

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 Form 9-331-C for such proposals.)

1. oil well gas well other Exploratory Test

2. NAME OF OPERATOR
JAY M. SHIELDS

3. ADDRESS OF OPERATOR 90272
320 Bellino Dr., Pacific Palisades, CA

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2130'N & 1980'W of SE corner
AT TOP PROD. INTERVAL: of Section 24
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Well Completion Report Non-Productive.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

- 2/20/81 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, Cluff Drlg: Broke away cmt plug between 7-5/8" surf csg and 4-1/2" csg. Noticed blow of gassy & acidic air. Poured 1000 gals tracer water down annulus. Opened valve on 4-1/2". Noted blow with gassy odor. Bailed 4-1/2". Rec 6 gals water. No tracer water.
- 2/21/81 Cluff Drlg: Reported air sucking into annulus.
- 2/22-23/81 Shut-in. Decision to cement annulus from top.
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- 2/27/78 Agent at well. Opened valve. No flow or odor. Shut-in.
- 3/2/81 Cluff Drlg: Final check. Bailed a little water. Will move cable tool rig off loc.
- 3/3/81 Shut-in. Request well be left as is for observation. Valve on 4-1/2" casing is closed.

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

SIGNED Jay M. Shields TITLE operator DATE April 14, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY

775

From the desk of:

JAY SHIELDS

2/23/81

Don -

will be working
some more on well.
will report shortly.

cc: BLM
USGS

Jay Shields

RECEIVED

FEB 27 1981

D & G CONS. COMM.

RECEIVED

FEB 27 1981

WA

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
O & G CONS. COMM.

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 Form 9-331-C for such proposals.)

1. oil well gas well other Exploratory Test

2. NAME OF OPERATOR
JAY M. SHIELDS

3. ADDRESS OF OPERATOR
90272
320 Bellino Dr., Pacific Palisades, CA

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2130'N & 1980'W of SE corner
AT TOP PROD. INTERVAL: of Section 24
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
A*10457

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
SHIELDS FEDERAL

9. WELL NO.
#1-24

10. FIELD OR WILDCAT NAME
WHITE SAGE PROSPECT

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24, T41N - R1W, G&SRBM

12. COUNTY OR PARISH
COCONINO

13. STATE
ARIZONA

14. API NO.
02 - 005 - 20013

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5062 WD - 5065 KDB & DF

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Well Completion Report

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)

1/27/81 - WILLIAMS DRLG. Bailed to TD @ 470'. Rec 10 g. fluid. Oil odor but no oil. Opened cored int. 457-470 and deepened to 482' with 6 1/4" bit @ air.

1/28/81 - HALLIBURTON. Ran @ cmt'd 4 1/2" 9 1/2" line pipe @ 479' with 90 sx cmt 10% salt. No returns to surf. Bumped plugs. Waited on cmt for 18 hours.

1/29/81 - WELEX. Perf'd 457-465 with 4 shots/foot. HALLIBURTON began running KCL water ahead of acid. Could not put away at 1500psi. Bailed hole. Ran acid (15% HCL). Fm broke down at 1500psi. Pumped away 1900 gals plus 320 gals KCL water. Rate 1 1/2 - 2 1/2 B/min @ varying pressure using balls. Held closed in for 40 minutes. Well on vacuum. Chased fluid, bailing 200 gals to bottom. Blow of acid - no oil or gas entry.

1/30/81 - WILLIAMS DRLG. FL @ 460'. Bailed 24 gals LW. Blow acid gas. Ran probe outside 4 1/2" csg. Did not find cmt to 330'. Shut in Well at 2 PM.

2/10/81 - CLUFF DRLG. FL @ 854'. Top foamy, acidic. Bot watery but slick feel. No oil. Bailed once a day through 2/17/81. Sent 2/13 water to Hallib. Neg.

2/19/81 - SHUT IN.

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

SIGNED Jay M. Shields TITLE Operator DATE Feb 23, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

715

2-3-81

TO FILE:

J. SHIELDS FEB 1-24

Progress report

Fri 1-30- 40' fillup - acid wtr

bailed until 2:00 pm - acid wtr

coming in very slow.

Shut well in

plan to line up unit to continue
bailing operation within the next
10 days

Plan

715

Mr Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272



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JAN 20 1981
O & G CONS. COMM.

WELL CUTTINGS

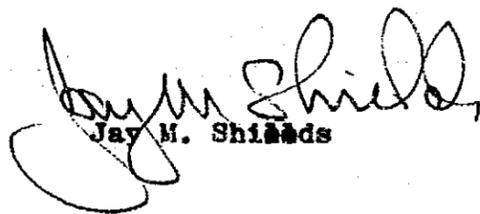
Enclosed are 10 feet test samples of my well - the Shields Federal #1-24, NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24, T41N - R1W, G&SRBM, Coconino County, Arizona, from 0 feet to 456 $\frac{1}{2}$ feet

Spudded 11:15am, November 19, 1980.

Completed 4:00pm, November 21, 1980 at 456 $\frac{1}{2}$ feet.

Cored am November 22, 1980, from 456 $\frac{1}{2}$ to 470 $\frac{1}{2}$ feet - 14 feet full recovery (no samples included). Will be submitted at a later date.

Well Permit #715


Jay M. Shields

Sample # 1817
Permit # 715

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Conventional Core Analysis

For

Jay M. Shields
Shields Federal 1-24
White Sage Area
Cochino County, Arizona

ENGINEERING and CONSULTING DEPARTMENT



715

516 E 18TH ST BAKERSFIELD, CALIFORNIA 93305 - 805/324-4915

CORE LABORATORIES, INC.

December 17, 1980

LAB

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JAN 19 1981

O & G CONS. COMM.

Jay M. Shields
320 Bellino Drive
Pacific Palisades, CA 90272

Subject: Core Analysis Data
Shields Federal 1-24
White Sage Area
Cocino County, Arizona

Gentlemen:

Conventional equipment was used in extracting core from the subject well. These cores were submitted to our Wilmington, California laboratory for permeability, porosity, API° oil gravity, acid solubility, and fluid saturation determinations. The results of these analyses are presented in the accompanying report.

We sincerely appreciate this opportunity to serve you and hope these data prove beneficial in the development of this reservoir.

Very truly yours,

CORE LABORATORIES, INC.

James A. Cusator
James A. Cusator
District Manager

Enclosures

JAC:smc

715

CL-5112

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

Company Jay M. Shields Formation Kaibab Page 1 of 1
 Well Shields Federal I-24 Cores Conventional File 10-0803-01-2016
 Field White Sage Area Drilling Fluid Air Date Report 11-26-80
 County Cocnino State Az. Elevation _____ Analysts dd, wg
 Location _____ Remarks _____

CORE ANALYSIS RESULTS
(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PERCENT	RESIDUAL SATURATION		PROBABLE PRODUCTION	API	REMARKS
		HORIZONTAL	VERTICAL		OIL % VOLUME	TOTAL WATER % PORE			
1	456	0.3		15.1	17.2	68.9			Dol;lt brn, vf, lmy, mstn, glc
2	457	0.7		18.6	8.3	66.2			same
3	458	0.02		15.2	21.1	55.0	34		same
4	459	1.5		15.7	19.2	56.2			same
5	460	0.01		13.6	6.5	57.9			same
6	461	0.02		6.6	13.8	86.2			same
7	462	0.001		17.3	5.0	55.5			same
8	463	0.02		12.6	20.9	64.5			same
9	464	0.01		15.3	11.4	82.7			same
10	465	0.007		10.9	15.2	76.1	34		same
11	466	0.03		14.5	0.0	96.3			Dol;gy, vf, lmy, sil, no stn, no flu

ACID SOLUBILITY
 15% HCl

Depth	% Solubility
457	78.3
461	58.3
466	47.5

NOTE:

(*) REFER TO ATTACHED LETTER.
 (1) INCOMPLETE CORE RECOVERY—INTERPRETATION RESERVED.

(2) OFF LOCATION ANALYSES—NO INTERPRETATION OF RESULTS.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

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CHEMICAL RESEARCH AND DEVELOPMENT DEPARTMENT

JAN 19 1981

HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

O & G CONS. COMM.

LABORATORY REPORT

No. S30-8074-80

To Mr. F. X. deBlanc, Jr.
Halliburton Services
P.O. Box 1008
Norwalk, CA 90650

Date December 24, 1980

This report is the property of Halliburton Services and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operation by any person or concern and employees thereof receiving such report from Halliburton Services.

We give below results of our examination of the submitted core samples.

Submitted by Mr. deBlanc for Shields Oil Co.

Marked Well: Shields Federal #124
Coconino Co., AZ
Cores: 458' and 459'
34° API Gravity Oil
φ = 16-18.67
K = 0.3-1.5 md Core sent by Tom Rader, Santa Fe Springs, Ca.

PURPOSE

The purpose of this examination was to determine the mineral content, acid solubility and acid etched fracture flow capacity of the submitted cores.

RESULTS

The requested tests were performed and their results are recorded in the Data Section of this report.

715

NOTICE: This report was prepared by and is the property of Halliburton Services, a Division of Halliburton Company; the data reported, intended for the private information of the above named party, is limited to the sample(s) described; accordingly, any user of this report agrees that Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use of the data reported herein; and Halliburton makes no warranties, express or implied, whether of fitness for a particular purpose, merchantability or otherwise, as to the accuracy of the data reported.

X-RAY DIFFRACTION ANALYSIS

	458	459
Quartz	7%	7%
Feldspar	-	-
Calcite	-	-
Dolomite	68%	70%
Kaolinite	1%	1%
Illite	-	1%
Smectite	-	-
Mixed Layer Clay	1%	1%
Gypsum	21%	18%
Siderite	1%	2%
Anhydrite	1%	1%
HCl Solubility*	76.2%	76.1%

*This is solubility in dilute HCl as CaCO₃ only.

ACID ETCHED FRACTURE FLOW CAPACITY TESTS

Conditions: Temperature -----76°F
Closure Pressure --1000 psi

Acid Solution	Contact Time (Min)	Fracture Flow Capacity (md-ft)		Amount Removed and Crushed (inch)
		MY-T-ACID®*	Conventional**	
15% HCl	20	19,382	8,614	0.034
0.1% HAI-50	40	49,946	20,472	0.038

* - Fracture conductivity that could result from a MY-T-ACID treatment. When a viscous preflush is used ahead of acid, viscous fingering can occur. Any treatment where viscous fingering is anticipated is described as a MY-T-ACID treatment. When viscous fingering occurs, the acid only contacts a portion of the fracture resulting in differential etching and usually much higher fracture conductivity.

** - Fracture conductivity measured under closure pressure. This is the fracture conductivity that would be expected from a conventional fracture acidizing treatment.

REMARKS

The data in this report were given to Mr. F. X. deBlanc, Jr., by Mr. Bob Ewing during a telephone conversation on December 23, 1980.

DATA BOOK REFERENCE

The data presented in this report are recorded in Chemical Services Book No. 4140, page 32, Analytical Book No. 4204, page 56, and Analytical Book No. 4201, page 69.

cc: Mr. J. R. Fehrenbach
Mr. S. H. Shryock
Mr. T. A. Rader
Mr. W. T. Malone
Mr. E. J. Stahl, Jr.
Mr. F. N. Harris

Respectfully submitted,

715

Laboratory Analyst
Ewing-McCarty-Blanton

HALLIBURTON SERVICES

rdf

By Bob C. Ewing
Bob C. Ewing H B L

NOTICE: This report was prepared by and is the property of Halliburton Services, a Division of Halliburton Company; the data reported, intended for the private information of the above named party, is limited to the sample(s) described; accordingly, any user of this report agrees that Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use of the data reported herein; and Halliburton makes no warranties, express or implied, whether of fitness for a particular purpose, merchantability or otherwise, as to the accuracy of the data reported.

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JAN 19 1981

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other **Exploratory Test**

2. NAME OF OPERATOR
Jay M. Shields

3. ADDRESS OF OPERATOR
320 Bellino, Pacific Palisades CA 90272

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: **2130'N & 1980'W of SE corner**
AT TOP PROD. INTERVAL: **same Sec.24**
AT TOTAL DEPTH: **same**

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input checked="" type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Run & Cmt 4 1/2" Csg			

5. LEASE	A-10457
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	-----
7. UNIT AGREEMENT NAME	-----
8. FARM OR LEASE NAME	Shields Federal
9. WELL NO.	1-24
10. FIELD OR WILDCAT NAME	White Sage Prospect
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	S 24, 41N-R1W, G&SRBM
12. COUNTY OR PARISH	Coconino
13. STATE	Arizona
14. API NO.	02-005-20013
15. ELEVATIONS (SHOW DF, KDB, AND WD)	AR P #715

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)

DAY 1 - Open Well (Jim Williams Drlg) & bail to TD @ 470 1/2'. Open hole to 6 1/2" from 456 1/2 - 470 1/2 (cored int). Run 4 1/2", 9 1/2# thrd csg + cmt guide shoe & baffle to 469 1/2. Cmt (Halliburton) to surface using Class B + salt + CaCl. Bump plugs & let cmt set overnight - min 12 hrs.

DAY 2 - Clean out 4 1/2" csg. Poss run (Welex) gamma-neutron log. Gun perf (Welex) from 456 1/2 to 464 1/2 using 6 shots per foot. Acidize (Halliburton) using 2000 gals 15% HCl + 2 gals/M MonFlo + 0.5g/M HAI-so + 80 ball sealers & 2 sx KCl. The Halliburton well head assembly will be used and kept in service if well blows in. 2" by pass line will carry gas, oil & lw to tank away from wellsite. Production test will be run, using bailer or swab if needed. Decisions will be made depending on test results. Start up is estimated for 1st wk in February 1981. YOU WILL BE ADVISED OF THE EXACT DATE BY TELEPHONE IN ADVANCE.

Subsurface Safety Valve: Manu. and Type **none**. Halliburton safety dev **at** @ surface **x**.

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

SIGNED _____ TITLE _____ DATE _____

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

715

RECEIVED
DEC 15 1980

Form 9-331
Dec. 1973

Form Approved
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

O & G CONS. COMM.

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 Form 9-331-C for such proposals.)

1. oil well gas well other Exploratory Test

2. NAME OF OPERATOR
Jay M. Shields

3. ADDRESS OF OPERATOR
320 Bellino Dr., Pacific Palisades, CA 90272

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2130'N & 1980'W of SE corner of
AT TOP PROD. INTERVAL: Section 24
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Suspend Drilling</u>	

5. LEASE
A-10457

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Shields Federal

9. WELL NO.
#1-24

10. FIELD OR WILDCAT NAME
White Sage Prospect

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24 - T41N - R1W, G & SRBM

12. COUNTY OR PARISH | 13. STATE
Coconino | Arizona

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5062 WD - 5065' KDB & DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates.
The #1-24 Well was spudded 11/19/80. Jim Williams Drilling Co., Skull Valley, Arizona, used a 10 1/2" hammer drill to 80' where 7-5/8" casing was run and cemented to surface. Well was then drilled to 456 1/2' with 6 1/2" hammer drill. Using a Christiansen diamond bit, two 3" cores were taken, #1 - 456 1/2' to 462 1/2', and #2 - 462 1/2' to 470 1/2'. Preliminary data (Core Lab) from 456 1/2'-466' indicate good porosity to 18% and residual oil saturation (34° API) to 20% with residual water averaging 60%. Permeability was very low, less than one millidarcy. Cores from 466'-470 1/2' were tite. There was no gas or oil to surface. After coring, Well was capped and temporarily suspended on 11/22/80. I request that the Well be on suspended status for 60 days and that the cores and core data be kept confidential for this period. A core has been submitted to the Halliburton Lab at Duncan, Oklahoma for tests to indicate possible procedures for extracting the oil. Report is promised by 1/5/81.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Jay M. Shields TITLE operator DATE 12/10/80

(This space for Federal or State office use)

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

(213) 459-1298

JS
JAY M. SHIELDS

320 Bellino Drive, Pacific Palisades, CA 90272

December 4, 1980

RECEIVED

DEC 8 1980

Mr. Don Whittaker, Director
Enforcement Section
Oil and Gas Conservation Commission
STATE OF ARIZONA
1645 W. Jefferson, Suite 420
Phoenix, Arizona 85007

O & G CONS. COMM.

Dear Don:

With reference to the subject well (SHIELDS FED. #1-24), this letter will confirm our recent telephone conversation regarding its status.

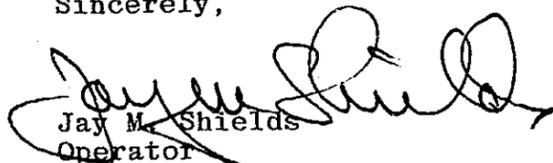
Drilling commenced on November 19, 1980. Contract was with JIM WILLIAMS WELL DRILLING of Skull Valley, Arizona. Using air and a hammer drill with 10 $\frac{1}{4}$ " bit, the well was drilled through Triassic-Permian limestones to 80' quickly and without incident. 7 7/8" casing was run and cemented to the surface using ready-mix concrete. Jim Willimas, a superior driller, used 7 $\frac{1}{2}$ " hammer driller coming out when casing and reached 60' per hour through the Permian Kaibab formation of limestone and dolomite. At 456 $\frac{1}{2}$ ', drilling was halted and a 4 $\frac{1}{2}$ " CHRISTIANSEN diamond bit and core barrel used. Core #1, 456 $\frac{1}{2}$ ' - 462 $\frac{1}{2}$ ', was a fine-grained oil-saturated dolomite. Core #2, 462 $\frac{1}{2}$ ' - 470 $\frac{1}{2}$ ', had oil in fractures in first 2'. The balance of the core was an impermeable, hard, siliceous, shaley and sandy dolomite. The coring was supervised by CHRISTIANSEN DIAMOND. Cores from 456 $\frac{1}{2}$ ' - 466 $\frac{1}{2}$ ' were submitted to CORE LAB in Long Beach, Calif. on November 24, 1980. Data will be made available to the USGS and BLM when received. Early reports indicated good porosity and oil saturation, but very low permeability. Oil recovered was 34^o API.

As per our conversation, I have capped the well, welding a plate on the casing with the inscription: SHIELDS FED. #1-24, pending a review of the CORE LAB data. Meanwhile, until decisions are reached, I request that the well might be maintained on suspended status for a period up to 60 days.

You will be kept fully informed. I expect to re-enter the well within the 60 day period. In addition, it will probably be necessary to drill another well and, as discussed, a 10-acre spacing may be preferable.

Your concern and cooperation are deeply appreciated.

Sincerely,


Jay M. Shields
Operator

Form 9-331 C
(May 1983)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 42-R142

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 Exploratory SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Jay M. Shields

3. ADDRESS OF OPERATOR
320 Bellino Drive; Pacific Palisades, CA 90272

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1980' from East Line and 2130' from South Line
of Section 24, T41N - R1W, G&SRB Meridian
At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Eleven miles East of Fredonia, Arizona

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 4620' east to LL 510' n to DUL (Also to nearest drilg. unit line, if any)

16. NO. OF ACRES IN LEASE
2558.12

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 150'

19. PROPOSED DEPTH
900'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5062 GR

22. APPROX. DATE WORK WILL START*
November 5, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-7/8"	7-5/8"	18#	75'	15 sx (to surf.)
6-3/4"	5-1/2"	10#	300 - 900	50 - 100 sx

Drilling will be done with air. After setting and cementing 7-5/8" surface casing at 75', a 6-3/4" hole will be drilled. Below 400', cores will be taken of possible oil zones in the Kaibab formation. Open hole tests of the zones are planned and, if necessary, either the well will be completed by running and cementing 5-1/2" casing and installing a pumping unit or request will be made to delay plugging and abandonment pending further testing after core analysis. This well will directly offset the Travis Federal #1-24 which was drilled to 900' and abandoned in early June 1980 (see Survey Plat). The Shields Federal location is 150' north of the Travis Federal Well. As there was no observed pressure in the Travis Well to total depth at 900', a blowout preventer is not proposed for the Shields Federal #1-24. All State and Federal regulations will be observed in the drilling of this offset Well.

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 Jay M. Shields TITLE Lessee & Operator DATE October 3, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY J.P. Wagner TITLE District Supervisor

cc: Deputy Conservation Manager, Oil & Gas, Western Region
District Geologist, LA
BLM, Arizona Strip District
Arizona Oil & Gas Conservation Commission, Phoenix, AZ

RECEIVED
NOV 7 1980
O & G CONS. COMM.

SEE ATTACHED CONDITIONS AND REQUIREMENTS

RECEIVED

DESIGNATION OF OPERATOR

OCT 2 1980

O & G CONS. COMM.

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

DISTRICT LAND OFFICE: Phoenix, Arizona
SERIAL NO.: A 10457

and hereby designates

NAME: Jay M. Shields
ADDRESS: 320 Bellino Drive, Pacific Palisades, CA 90272

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):

T 41 N - R 1 W.
Sec. 23, E $\frac{1}{2}$; Sec. 24, All; Sec. 25, All; Sec. 26, E $\frac{1}{2}$;
T 41 N - R 1 E.
Sec. 19, Lots 1, 2, 3, 4 and E $\frac{1}{2}$ W $\frac{1}{2}$;
Sec. 30, Lots 1, 2, 3, 4 and E $\frac{1}{2}$ W $\frac{1}{2}$.,
containing 2558.12 acres, Coconino 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.

Jay M. Shields
(Signature of lessee)

320 Bellino Dr.
Pacific Palisades, CA 90272
(Address)

October 1, 1980
(Date)

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

RECEIVED

OCT 2 1980

APPLICATION TO DRILL

RE-ENTER OLD WELL

O & G CONS. COMM.

JAY M. SHIELDS
NAME OF COMPANY OR OPERATOR

320 BELLINO DRIVE, PACIFIC PALISADES, CALIFORNIA 90272
Address City State

LAYTON DRILLING
Drilling Contractor
P. O. BOX 765, GRAND JUNCTION, COLORADO 81501
Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor FEDERAL #A 10457	Well number 1 - 24	Elevation (ground) 5062 feet
---	------------------------------	--

Nearest distance from proposed location to property or lease line: 4620 feet feet	Distance from proposed location to nearest drilling completed or applied for well on the same lease: 150 feet feet
---	--

Number of acres in lease: 2558.12 acres	Number of wells on lease, including this well, completed in or drilling to this reservoir: Two (2)
---	--

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

Well location (give footage from section lines) 1960 feet from east line & 2130 feet from south line	Section—township—range or block and survey Sec 24, T41N - R1W, G&SRBM	Dedication (Comply with Rule 105) N$\frac{1}{2}$SE$\frac{1}{4}$ (80A)
--	---	---

Field and reservoir (if wildcat, so state) WILDCAT	County COCONINO
--	---------------------------

Distance, in miles, and direction from nearest town or post office:
FREDONIA, ARIZONA - 10 MILES EAST

Proposed depth: 1000 feet	Rotary or cable tools ROTARY	Approx. date work will start NOVEMBER 1, 1980.
-------------------------------------	--	--

Bond Status: Attached hereto	Organization Report	Filing Fee of \$25.00
Amount: \$5,000.00	On file Or attached <input checked="" type="checkbox"/>	Attached <input checked="" type="checkbox"/>

Remarks:

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner & Operator of the subject lease & prop. well, and that I am authorized 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.

Jay M Shields
Signature

Date **September 29, 1980**

Permit Number: **715**
Approval Date: **10-2-80**
Approved By: *Don McWhittaker*

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

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

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- 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.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description

CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Name: Wayne Shields

Position: Operator

Company: Individual

Date: September 29, 1980

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.

SEE ATTACHED PLAT

Date Surveyed: July 28, 1980

Registered Professional Engineer and/or Land Surveyor

Kenneth J. Brown

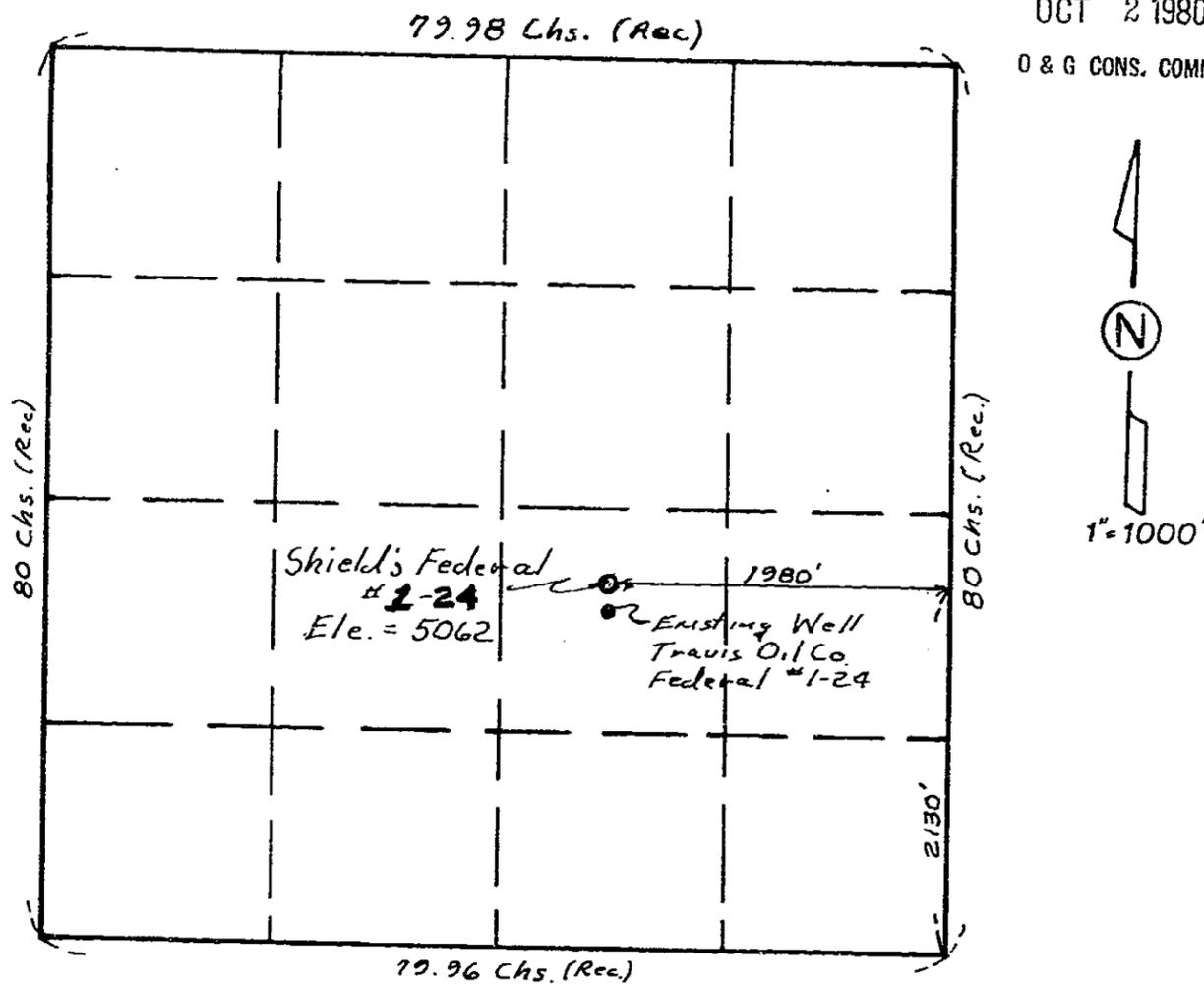
Certificate No. AR-11651

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8 5/8"	24#	Grade 1.00	grd	85' ±	0 - 85' ±	Sufficient to bring casing to surface from 85'
5 1/2"	14#	Grade 1.00	grd	300' to 900'	300' to 900'	50 to 100 sk

OIL WELL LOCATION
 SEC. 24, T41N, R1W, G & S.R.B. & M., ARIZONA

RECEIVED
 OCT 2 1980
 O & G CONS. COMM.



I, Kenneth J Brown, do hereby certify that the location of the well shown hereon was made under my supervision at the request of Jay M. Shields. Said well, known as Shield's Federal #2-24, is 2130 feet North, and 1980 feet West, from the S.E. Cor. of Sec. 24, T41N, R1W, G & S.R.B. & M., Coconino County, Arizona.

July 28, 1980

Kenneth J. Brown
 REGISTERED LAND SURVEYOR
 ARIZONA
 KENNETH J. BROWN
 411651



PERMIT TO DRILL

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

To: JAY M. SHIELDS
(OPERATOR)

to drill a well to be known as

FEDERAL 1-24
(WELL NAME)

located 2130' FROM SOUTH LINE and 1980' FROM EAST LINE (NW/4 SE/4)

Section 24 Township 41 NORTH Range 1 WEST, COCONINO County, Arizona.

The N/2 SE/4 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 2nd day of October, 1980

OIL AND GAS CONSERVATION COMMISSION

By Don Whittaker
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

PERMIT No 715

RECEIPT NO. 1910
API No. 02-005-20013

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

TEN FOOT SAMPLES ARE REQUIRED FROM SURFACE

Date: 6-26-91 Permit No: 715

To: Diana Basquez
Petroleum Information
4100 East Dry Creek Road
Littleton, CO 80122
303-740-7100 Ext. 380

The following logs were sent to P.I. for
duplication:

Composite Type Log



OFFICE OF

Oil and Gas Conservation Commission
STATE OF ARIZONA

1846 WEST JEFFERSON, SUITE 420

PHOENIX, ARIZONA 85007

PHONE: (602) 266-6181

October 2, 1984

Jay M. Shields
Shields Exploration Co.
320 Bellino Drive
Pacific Palisades, CA 90272

Re: Proposed Well Location
Well No. 2-19 Federal
Coconino County, Az

Dear Mr. Shields:

This will acknowledge receipt of your letter of September 29, accompanied by an application to drill subject well on an unorthodox location.

Please be informed that we cannot approve your request to drill the well at the proposed location for reasons of topography until we are in receipt of data (maps) supporting your request.

If the data you submit does not support your request, and your request is denied, you can file a petition with the Oil & Gas Commission for hearings to drill the well under other exceptions as noted in R12-7-107(4). Copy of this rule is enclosed.

In the meantime we will forward a copy of your application to the Department of Water Resources to see if there are fresh waters in this area 550' that need to be protected by additional surface casing.

After BLM approval of your application, which we understand was several months ago, steps should have been taken immediately to clear up this "spacing" matter. This course of action was suggested to you months ago.

If you have any questions on this matter, please call.

R.A. Ybarra
Enforcement Director

Enclosure

RAY/rga



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
1845 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 255-5161

October 2, 1984

Ed Nemecek
Department of Water Resources
99 E. Virginia
Phoenix, AZ

Re: Proposed Exploratory Well
Well No. 2-19 Federal
NW/4 SW/4 NW/4 Sec. 19-T.41N., R.1E.

Attention: Mr. Nemecek

Enclosed for your review is a copy of an application to drill
subject exploratory well to a depth of 4000'.

We have determined that 550 feet of surface casing protects the
fresh waters in the vicinity of the proposed well location and
provides sufficient anchorage for the required blowout prevention
equipment.

If you have data (top & base of fresh waters) that supports
different casing requirements, please forward at your earliest
convenience.

R. A. Ybarra
R. A. Ybarra
Enforcement Director

Enclosure

RAY/rga

SHIELDS EXPLORATION CO.
320 BELLINO DRIVE
PACIFIC PALISADES, CA 90272
PHONE (213) 459-2490

715
RECEIVED
OCT 18 1983
D & G CONVS. COMM.

October 14, 1983

Mr. Rudy Ybarra
Oil and Gas Conservation Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Rudy:

I understand from Bob West that you and AK were up in Fredonia a short while ago just after we left. Sorry to have missed you and sorry to hear that the Brooks Well didn't find anything.

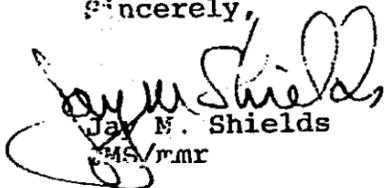
We were up at our lease primarily to bail the shallow wells. Results are attached. We will now have to bite the bullet and go about abandonment procedures. I had hoped that we would see a little oil after fracing. Would you please send me a batch of the necessary abandonment forms?

The shallow well data has also been sent on to the BLM in St. George together with water samples of the #1-23, #11-24 and #1-19A wells. The other wells were frac'd and fluid is still strongly acid.

Did you see the Article in the September Issue of the Oil and Gas Investor? Sure a lot of smoke with no fire. Maybe 1984 or ?

Very best to you both. Will keep you advised and hold kind thoughts.

Sincerely,


Jay M. Shields
JMS/rmr

Enclosures: Bailing Redord
cc Oil & Gas Investor Magazine article

Shields -
I sent the requested forms on 10/26/83

SHIELDS EXPLORATION CO.

320 BELLINO DRIVE
PACIFIC PALISADES, CA 90272
PHONE (213) 459-2490

RECEIVED

OCT 18 1983

O & G CONS. COMM.

October 14, 1983

INTERIM REPORT
WHITE SAGE PROSPECT - COCONINO COUNTY, AZ

Existing shallow wells, all drilled by Air-Hammer, were bailed on September 26, 1983. Results were as follows:

- SF #2-24 - Spud 11/11/81. TD 500'. PBTd 480'. Cored 454'-472'. Rec 18'. Log DIL - CDL. Cmtd 4½" csg @ 430'. Acid HCl + N₂. Valve opened. Slight pressure - acid odor. Recovered bits grey ss and grey mud. No fluid.
- SF #4-24 - Spud 11/19/81. TD 750'. PbTD 475'. Cored 445' - 460' and 731' - 750'. Rec 34'. Log DIL - CBL. Cmtd 4½" csg @ 426'. 4½" Bull Plug opened. Weak blow. Odd odor, slightly acidic. Recovered small amount blk sludge. No fluid.
- SF #5-24 - Spud 11/4/81. TD 480'. Cored 453' - 462'. Rec 9'. Log DIL - CDL. Cmtd 4½" csg @ 434'. Acid HCl + N₂. Valve was open. No pressure. S and acidity odor. Recovered cloudy, acidic water. Approx 10' water in hole.
- SF #6A-24 - Spud 12/1/81. TD 490'. Cored 465' - 473'. Rec 8". Log DIL - CDL. Cmtd 4½" csg @ 434'. Acid HCl + N₂. Valve was open. No pressure. No odor. Recovered clear, acidic water. Top water 400' + or -.
- SF #11-24 - Spud 8/28/82. TD 540'. Cmtd 7" csg @ 40'. Hole open to TD. Sampled. Not logged. Plate - no valve. No pressure. No odor. Recovered several cans light tan water. Slight S odor. Top water 450' + or -.
- SF #1-23 - Spud 9/14/82. TD 550'. Cmtd 7" csg @ 55'. Hole open to TD. Sampled. Not logged. Plate. No valve. No odor. Top water @ approx 400'. Recovered lite tan water, earthy odor.
- SF #1-19 - Spud 8/30/82. Td 420'. Drill stuck. Abandoned hole. Sampled. Not logged. Marked with 4' = 4½" pipe. P & A 9/13/82.
- SF #1-19A - Spud 9/7/82. TD 500'. Cmtd 7" csg @ 40'. Hole open 100'N 30°W to TD. Sampled. Not logged. Plate. No valve. Small Offset to amt. fluid @ TD. Top approx. 490'. Recovered lite SF #1-19. greyish water with oily odor.
- SF #1-24 - TD 482'. P&A 12/30/81.
- TF #1-24 - TD 900'. P&A 9/13/82.



OFFICE OF

Oil and Gas Conservation Commission
STATE OF ARIZONA

1645 WEST JEFFERSON, SUITE 420
PHOENIX, ARIZONA 85007
PHONE: (602) 255-5161

RECEIVED

JAN 20 1982

O & G CONS. COMM.

AKS

January 11, 1982

Mr. Jay M. Shields
Shields Exploration Co.
320 Bellino Dr.
Pacific Palisades, CA 90272

Re: Shields 1-24 Federal

Dear Jay:

We received Form No. 10 (Plugging Record) on subject well but before we can close the records on this well we need a completed Form No. 4 (Well Completion Report and Well Log).

Enclosed is a supply of Forms No. 4 which you will need for this and other wells to be placed on production or abandoned.

Did you ever drill well 8-24 Federal? We need a status report on it.

Sincerely,

R. A. Ybarra
R. A. Ybarra
Enforcement Director

RAY:os
Enc.

Rudy - 1/16/82
Here is copy of latest
well 8-24 notice. Also
copy of Form 4 for the
Shields Federal 1-24 (abdn).
Will give you a ring!
Jay Shields

Send extra sundry
of January 6, 1982.

7/5

From the desk of:

JAY SHIELDS

RECEIVED

12/01/81

JAN 4 1982

O & G CONS. COMM.

Dear A.K. -

Finally got around
to plugging the
shields #1-24. Did
so according to
instructions from BEM
and your office.

Best of everything
in the New Year &
keep fingers crossed!
Jay

September 17, 1981

Jay M. Shields
320 Bellino Dr.
Pacific Palisades, Calif. 90272

Re: Travis 1-24 Federal, Permit 770
Shields 2-24 Federal, Permit 771
Shields 4-24 Federal, Permit 772
Shields 1-24 Federal, Permit 715 ✓

Dear Mr. Shields:

Enclosed are approved copies of Application for Permit to Drill, permits and receipts for your three new wells. Also enclosed is approved copy of Application to Abandon and Plug your 1-24 Federal well.

We are enclosing plugging record and well completion forms for the latter well.

If we can be of further service, please advise.

Sincerely,

A. K. Doss
Executive Director

/os
Encl.

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272
(213) 459-2490 or 459-1298

September 15, 1981

Mr. A. K. Doss, Secretary
Arizona Oil and Gas Conservation Commission
Suite 420
1645 West Jefferson
Phoenix, Arizona 85007

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SEP 16 1981

O & G CONS. COMM.

Re: SHIELDS FEDERAL # 2-24, T41N-R1W, Coconino County, Arizona
SHIELDS FEDERAL # 4-24, T41N-R1W, Coconino County, Arizona
TRAVIS FEDERAL # 1-24, T41N-R1W, Coconino County, Arizona
715 SHIELDS FEDERAL # 1-24, T41N-R1W, Coconino County, Arizona

Dear Mr. Doss:

I would like to make formal requests for two (2) Drilling Permits for two (2) wildcat wells, the SHIELDS FEDERAL #2-24 and the SHIELDS FEDERAL #4-24, to be drilled for oil in Section 24, T41N-R1W in Coconino County, AZ. I am also filing an Application for Permit to Re-enter the TRAVIS FEDERAL #1-24 and an Application to Abandon and Plug the SHIELDS FEDERAL #1-24, all in Section 24, T41N-R1W, Coconino, Arizona.

In accordance with requirements of the Commission, I enclose the following forms and documents:

1. SHIELDS FEDERAL #2-24 and SHIELDS FEDERAL #4-24
 - a) Application for Permit to Drill including Survey Plat of Location by Phil Drake, R.L.S., Utah, for Shields Federal #2-24 and Shields Federal #4-24.
 - b) Designation of Operator/SF #2-24 and SF #4-24
 - c) Organization Reports/SF #2-24 and SF #4-24
 - d) 2 (two) checks for filing fee (\$25.00 each) - SF #2-24 and SF #4-24
2. TRAVIS FEDERAL #1-24
 - a) Application for Permit to Drill or Re-enter including Survey Plat of Location by Ernest V. Echohawk, R.L.S., Arizona, for Travis Federal #1-24.
 - b) Designation of Operator/TF #1-24
 - c) Organization Report/TF #1-24
 - d) Check for Filing Fee (\$25.00) for TF #1-24
3. SHIELDS FEDERAL #1-24
 - a) Application to Abandon and Plug Shields Federal #1-24 including Survey Plat of Location by Kenneth J. Brown, R.L.S., Arizona
 - b) Designation of Operator/SF #1-24
 - c) Organization Report/SF #1-24

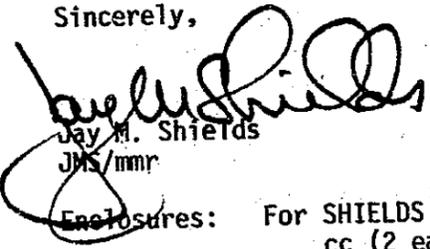
On file in your office is a Performance Bond for \$25,000.

SHIELDS APPLICATIONS
Page 2

Looks like things may get a little busy for you. All of the above applications have been filed with John Wagner, USGS (the Federal Government, Bakersfield, CA) and the BLM. They have already approved the Application to Re-enter the Travis Federal #1-24 Well. The USGS and the BLM should have the applications processed within 10 days, and I expect to get underway by October 15. It is my plan to drill these wells and two (2) others (Shields Federal #5-24 and Shields Federal #6-24 which are currently being surveyed) in series and then log, etc., one after the other.

Your interest and cooperation are appreciated and I will keep you advised at all times.

Sincerely,


Jay M. Shields
JMS/mmr

- Enclosures: For SHIELDS FEDERAL # 2-24 and SHIELDS FEDERAL #4-24
cc (2 each) Application for Permit to Drill & Survey Plats
cc (2 each) Designation of Operator
cc (1 each) Organization Report
check for \$25.00 Filing Fee (1 Each)
- For TRAVIS FEDERAL #1-24
cc (2 each) Application for Permit to Drill or Re-enter & Survey
Plat of TF #1-24
cc (2 each) Designation of Operator
cc Organization Report
Check for \$25.00 Filing Fee
- For SHIELDS FEDERAL #1-24
cc (2 each) Application to Abandon and Plug & Survey Plat for SF #1-24
cc (2 each) Designation of Operator
cc Organization Report

Total Enclosures: 31 (7 for each wellsite plus 3 checks)

RECEIVED
SEP 16 1981
D & G CONS. COMM.

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual
Jay M. Shields

Post Office Address (Box or Street Address)
320 Bellino Drive, Pacific Palisades, California 90272

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

Purpose of Organization (State type of business in which engaged)
Oil and Gas Exploration

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

If a foreign corporation, give (1) State where incorporated	(2) Name and post office address of state agent	(3) Date of permit to do business in state
-----	-----	-----
Principal Officers or Partners (if partnership) NAME	TITLE	POST OFFICE ADDRESS
-----	-----	-----

DIRECTORS NAME	POST OFFICE ADDRESS

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Owner of the Subject LEASES (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: Jay M. Shields
Date: September 29, 1980

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

RECEIVED
AUG 5 1981
O & G CONS. COMM.

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

OKD
To OS.

July 30, 1981

Mr. A K. Doss, Secretary
Arizona Oil and Gas Conservation Commission
Suite 420
1645 West Jefferson
Phoenix, Arizona 85007
Ref: Shields Fed #1-24
T41N-R1W, Coconino Co.

Dear Mr. Doss:

Reference our recent discussion of the subject Well, I would like to advise of my current plans and a proposal for abandonment procedures and timing.

It is my intention to proceed with a program to drill a series of stratigraphic test wells on the White Sage Prospect for the purpose of determining the nature and extent of the fine grained dolomite cored in the #1-24. ~~Could I have enough forms for processing 4 wells.....~~

Mailed 8-4-81

Enclosed is a Sundry Notice Form (USGS) regarding the proposed abandoning of the #1-24 at such time as I am able to get a rig on the lease. The Notice may be useful for your records. Also a copy of the Wagner (USGS) letter for your information. The USGS supervises O&G operations on federal lands in Arizona from the Bakersfield office. Nice people. The BLM for O&G (Cloyd Swapp in charge) work out of St. George, Utah and cover NW Arizona. Nice guy.

All good wishes in your new Job. Hope we can liven things up for the Department and look forward to seeing you when things get going.....

7/5

Best Regards,

Jay M. Shields

Encl: Sundry Notice SF#1-24
Copy USGS Letter

note as per your telephone instructions, abandonment procedure for the SF#1-24 well are to be: 1) 50' cement plug @ bottom, 2) 20' cement plug @ top and 3) 4" steel pipe dry hole marker with required information welded on.

RECEIVED
AUG 3 1981
O & G CONS. COMM.

RECEIVED

COPY

July 30, 1981

Mr. J. P. Wagner
District Supervisor - USGS
309 Federal Building
800 Truxtun Avenue
Bakersfield, CA 93301

Ref: Shields Federal #1-24
API #02-005-20013
Coconino County, AZ

Dear Mr. Wagner:

It has been some time since I was last in touch with you regarding my Arizona well, which has been on suspended status since March.

After some research and consideration of alternatives, I have decided to abandon the SF #1-24 when my drilling operations can be resumed on the lease block which may be possible in about 60 days. See attached Sundry Notice.

My current plans are to drill a series (3 or 4) of stratigraphic tests to depths between 500 and 800 feet in an effort to determine the nature and extent of the porous, oil saturated dolomite cored in the exploratory well.

In that regard, I would appreciate your sending me the necessary application forms for as many as 4 wells so that I can begin the necessary filings.

Will telephone you next week to ascertain requirements and any changes in procedures of recent date.

Best regards,

Encl: Sundry Notice Report

Jay M. Shields

715

SHIELDS Expl. Co

213-459-2490

new phone no. 6-2-81

RECEIVED

APR 20 1981

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272 G CONS. COMM.

Dear Bill:

4/14/81

Here are some documents for you -
The Sundry Notice pretty well closes
out the Fed #1-24 shields well.
I do want to monitor it for
awhile.

The insurance adds \$20,000
coverage to my existing Policy with
you thus converting me to Blanket
Bond status. Note 2 Riders.

Enjoyed our talk. will file
with BLM first - Happy last
two months!
Jay M Shields

February 25, 1981

Mr. Jay M. Shields
320 Bellino Dr.
Pacific Palisades, Calif. 90272

Re: Report forms requested

Dear Jay:

Enclosed are the forms that will be required to complete in the event you decide to plug your well and re-enter the Travis well. Hopefully, this will not be necessary.

I have accepted a position in Dallas with an oil firm, so I am leaving Phoenix. I enjoyed working with you and maybe our paths will cross again in the future. Also, give my regards to your wife.

Yours truly,

Don Whittaker
Director
Enforcement Section

DW:os
Enc.

715

Don
Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

January 23, 1981

RECEIVED

JAN 26 1981

O & G CONS. COMAL

Mr. Don Whittaker
Director Enforcement Section
Arizona Oil and Gas Commission
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Don:

Subject to any drastic change in the weather picture, the following plans have been set for testing my well in Coconino County, Arizona, the Shields Federal #1-24. I plan on calling you today in the event that this letter is delayed in the mail and to give you sufficient notice in the event you wish to be present during the Testing.

Tuesday, January 27, 1981: JIM WILLIAMS DRILLING COMPANY -- Remove cap from well. Run bailer and recover all fluid to TD at 470½'. Open hole from 4½" to 6¼" from 456½' to 470½' using tricone bit and air. Deepen well to approximately 480'. Prepare site for running casing.

Wednesday, January 28, 1981: HALLIBURTON COMPANY -- 8 a.m. -- Fill hole with 10% salt solution water. Attach cement shoe and baffle. Run and cement 4½", 9½#, 8 rd thrd (2700# bursting strength) casing using 90 sacks of Class B cement plus 20% salt and 2% CaCl. Cement to surface. Plan to bump plugs at bottom. Let cement set for approximately 18 hours.

Thursday, January 29, 1981: WELEX and HALLIBURTON -- 7 a.m. -- Run in to bottom with bailer to determine position of cement in casing. Clean out if necessary to plug. Run Welex Gun Perforator. Shoot 4 holes per foot in 8-foot interval of White Sage dolomite from 456½' to 464½'. Welex will not run any logs. Halliburton to rig high-pressure head on 4½" casing. Pump away 2000 gals 15% HCL plus 2 gals/1000 MorFlo plus ¾ gals/1000 HAI-50, follow with 50 ball sealers plus 4 sacks KCL (10 barrels KCL water ahead of acid and 10 barrels behind). Hold pressure for approximately 40 minutes. Release pressure for Test. Surface arrangement will include 100 feet of 2" line attached to wellhead assembly and run north (down grade). If well flows load water and ?, will have truck-trailer tanker (capacity 7000 gallons - 175 barrels) in position. If well does not come in, plan on bailing, not swabbing. Will have barrels on site to dump bailer, run fluids to tank and to tanker. Additional tankage will be available if needed. If well flows or bails oil, will be prepared to run Potential Tests.

I do not plan to complete the well at that time. Halliburton will leave its high-pressure head if necessary. I will install my own wellhead assembly otherwise.

You can reach me thru Bob West in Kanab, Utah at 801/644-5744. I will be staying at Perry's Lodge, Kanab, arriving Monday afternoon, January 26th.

Sincerely,

Jay M. Shields
Jay M. Shields

JMS/pm

715

*Don
Hope to see you
there!*

10/11/81
W

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

RECEIVED

JAN 19 1981

O & G CONS. COMM.

January 15, 1981.

Mr. Don Whittaker
Oil and Gas Conservation Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Don:

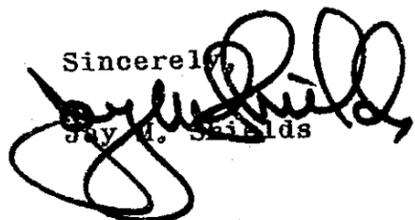
Enjoyed talking with you today. I am enclosing copies of the Halliburton Report on the cores and the Core Lab Report. Do keep them reasonably confidential for awhile. Also enclosed is the US Form #9-331 (Sundry Notices) outlining my plans for the testing of the Shields # 1-24 Federal Well.

As discussed, It is difficult for me to come up with a definite schedule for the testing. I think about February 1st would be close. I'll keep you posted and try to avoid the 4th thru the 7th.

I can't project the results of the acid job, but sure hope you can be there. It should be pretty interesting.....

All good wishes for the New Year and your cooperation in my efforts is deeply appreciated.....

Sincerely,



Jay M. Shields

Encl: Halliburton Report
Core Lab Report

15

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

December 10, 1980

RECEIVED

DEC 15 1980

O & G CONS. COMM.

Mr. Don Whittaker
Oil and Gas Conservation Commission
State of Arizona
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Don:

My December 4th letter was typed from notes and may be a bit complicated. As per your request, I am also enclosing the Sundry Notice Form (USGS #9-331) formally requesting the Well suspension and also that core data be held confidential.

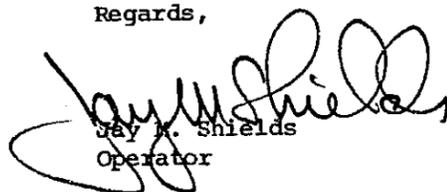
I expect that Halliburton will have proposals to me in early January. If favorable, I intend to get all the ducks on the pond as soon as possible and go ahead with tests on the Shields Federal #1-24. I do not now intend to drill an offset well until after tests are completed, but believe the suggested 10-acre spacing is logical. I understand the need for discussion and approval by you and the Commission.

You will receive copies when the Core Lab issues its Core Analysis Report and also the data, when received, from Halliburton. I have completed sorting Well samples and they will go out this week (10-foot intervals 0' to 455'). No cuttings were recovered during coring (with air). As I read the Regulations, I can hold the core information from public file for six months. However, I am sending you and John Wagner chips of 1) the oil-saturated dolomitic objective zone; 2) the anhydrite cap rock; and 3) the underlying rock which is more narrowly definable as a turbidite and a muddy, clayey dolomitic siltstone with some calcite-filled, mostly bedding plane fractures.

I would appreciate your confidentiality (except Bill, of course) particularly as the Well must remain capped and undisturbed.

Best wishes for a Merry Christmas to you and Bill and a Happy New Year for all.

Regards,


Jay M. Shields
Operator

JMS/pm

Enclosures - Sundry Notice
Core Chips

cc: John Wagner, USGS
Cloyd Swapp, BLM

Merry Christmas, Don

December 8, 1980

Jay M. Shields
320 Bellino Dr.
Pacific Palisades, Calif. 90272

Re: Shields Federal 1-24
State Permit 715
Coconino County, Arizona

Dear Jay:

This will acknowledge your request for a 60-day suspension of the above captioned well. Request is hereby granted.

We will need a letter from you requesting all information from this well be held confidential.

We wish you success on the completion of this well.

Yours truly,

Don Whittaker
Director
Enforcement Section

DWtos

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

State of Arizona

WELL CUTTINGS

#4267

Enclosed are 10 feet test samples of my well - the Shields Federal #1-24, NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24, T41N - R1W, G&SRBM, Coconino County, Arizona, from 0 feet to 456 $\frac{1}{2}$ feet

Spudded 11:15am, November 19, 1980.

Completed 4:00pm, November 21, 1980 at 456 $\frac{1}{2}$ feet.

Cored am November 22, 1980, from 456 $\frac{1}{2}$ to 470 $\frac{1}{2}$ feet - 14 feet full recovery (no samples included). Will be submitted at a later date.

Well Permit #715

Jay M. Shields
Jay M. Shields

October 2, 1980

Jay M. Shields
320 Bellino Drive
Pacific Palisades, Calif. 90272

Dear Mr. Shields:

Please find enclosed the drilling permit for your No. 1-24
Jay M. Shields Federal, and other pertinent documents.

I wish you success on this venture and would appreciate your
advising us when you spud so that I may visit your well site.

Yours truly,

Don Whittaker
Director
Enforcement Section

DW:os
Enc.

Jay M. Shields, 320 Bellino Drive, Pacific Palisades, California 90272

October 1, 1980.

Mr. Don Whittaker
Director, Enforcement Section
Oil and Gas Conservation Commission
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Dear Mr. Whittaker:

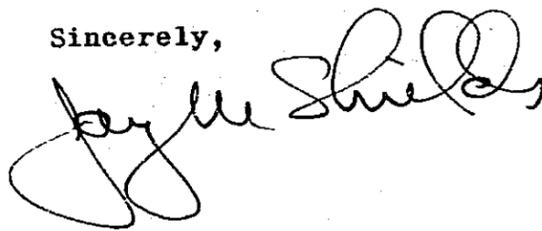
I would like to make formal request for a Drilling Permit for a wildcat well, the Shields Federal #1-24. The Well is to be drilled for oil in Section 24, T 41 N R 1 W, Coconino County, Arizona. In accord with requirements of the Commission, I enclose the following forms and documents:

- 1) Application for Permit to Drill including Survey Plat of Location by K. J. Brown, Arizona Licensed Surveyor.
- 2) \$5,000 Performance Bond.
- 3) Organization Report
- 4) Designation of Operator
- 5) Check for Filing Fee - \$25.00

A filing for drilling permit is also in process with the USGS and the BLM. Drilling operations are planned as soon as State and Federal approvals are obtained.

Your assistance and cooperation are appreciated.

Sincerely,



Encls -

RECEIVED

OCT 2 1980

O & G CONS. COMM.

July 8, 1980

J. M. Shields
320 Ballino Dr.
Pacific Palisades, Calif. 90272

Dear Jay:

Please find enclosed the forms you requested. You may wish to cancel the bond on the Travis well since it is in your name or have it transferred to cover your new well. However, before the bond is released, Travis must submit the following reports:

1. Sample description (use back of well completion report)
2. Application to plug
3. Plugging report

Forms for the above are also included and labeled "Travis Well."

We look forward to your commencing this well and wish you success in this venture. If we can assist you in any way, please advise.

Yours truly,

Don Whittaker
Director
Enforcement Section

DW:os
Enc.