P-W

[redacted]

Superior 2 Navajo-H
SW/4-SW/4 Sec. 16-T41N-R30E
Apache County

46

County Apache

Field: Twin Falls Creek, Area Four Corners

Lease No. 14-16-14-20-603-367

Well Name Superior Oil Company 2 Navajo-H

Location SW SW Sec 16 Twp 41N Range 30E Footage 660' FSL 810' FWL

Elev ~~5091'~~ LS ? 5105 Gr 5126 DF KB Spud Date 10-19-57 Completed for prod, ~~Abandon~~ 1-19-59 Total Depth 6787

5112 Gr CID 5126 KB Status: GP 5/68

Contractor

Drilled by Rotary X
Cable Tool

Casing Size	Depth	Cement
10 3/4	1054'	500 sx
7	5697'	600 sx

Production Horizon Ismay 4999'-5071'

Initial Production Calc. Open flow 12,500 MCF per day.

Gas Well GOR 99,013

REMARKS Plugged and abandoned

Gas well.

Elec Logs (2) GRN; Laterlog; Microlaterolog

Applic. to Plug X Plugging Record X Completion Report X

Sample Log Am Strat
Sample Descript. X 376
Sample Set X T-1008 P-586
Core Analysis
DSTs

Water well accepted by

Bond Co. & No. American Insurance Company Bond #5-11-22-63 Filed with P/N 281

Bond Am't $ 25,000 Cancelled 11-5-86 Date Organization Report X

Filing Receipt Dated Well Book X Plat Book X

API No. 02-001-05336 Loc. Plat X Dedication All Section 16

Sample 376
586

Permit Number 46 Date Issued 10-31-57

ARIZONA 46
APACHE COUNTY
WILDCAT (W)

PETROLEUM INFORMATION DENVER CASPER
ROCKY MOUNTAIN OIL INFORMATION

Twp 41n-30e
Section 16
SW SW
660 n/s 810 e/w

OPR: Superior Oil

WELL #: 2 Navajo "H"

ELEV: 5126 KB.

*TOPS: Log-~~Sample~~

Base Limey zone 2041
DeChelly Sd 2363
Organ Rock Sh 2695
Hermosa 4162
Upper Boundary Butte 4879
Desert Creek Tongue 5041
Lower Boundary Butte 5048
Chimney Rock 5172
Hogback 5256
1st Barker 5340
2nd Barker 5367

DSTS. & CORES: (over)

Tops contd:
3rd Barker 5589
Molas 5781
Weathered Leadville 5854
Unweathered Leadville 5900
Madison Dolo poro 6122
Elbert 6227
Aneth 6555
Quartzite (preCambrian) 6640

SPUD: 10-19-57 COMPL: 12-26-57

TD: 6787 PB: 5695

CSG: 10-3/4" @ 1044 w/500
7" @ 5695 w/600

PERF: 5063-71 w/4 per ft; acidized; swbd & flowed 32 bbls load, salt & acid wtr in 1 hr. Acidized w/1500; shut in for 4 hrs. Flowed @ 1100 MCFGPD rate for 1 hr, rec cond @ rate 30 BPD.**

PROD. ZONE:

INIT. PROD: IPF 4002 MCFGPD, 2-1/4 hrs, thru 23/64" ck, cond @ 31 BPD rate, 65 gty. (CAOF 12,500 MCFGPD).

HERMOSA DISCOVERY-NEW FIELD

**Flowed 744 MCFGPD rate for 1½ hrs, rec 4 bbls cond in 2 hrs, 65 gty. Perf 4999-5032, 5035-40 w/4 per ft; acidized w/500; swbd 23 bbls salt wtr in 1 hr, started flowing; flowed 116 bbls load & acid wtr in 4½ hrs thru 25/64" & 34/64" cks. Acidized w/8000. Shut in for 4 hrs, flowed 99 bbls load wtr in 2 hrs thru 32/64" ck. Shut in for 2-3/4 hrs; flowed 510 MCFGPD rate for 1-1/4 hrs thru 15/64" ck, rec 2 bbls cond. (over)

*For Electric Logs on Rocky Mountain Wells—Ask Us!

A2-959260

Perf info contd: Flowed [illegible]050 MCFGPD rate for 3/4 hr thru 18/64" ck[illegible] cond @ 27 BPD rate, 72 gty. Flowed @ 3514 MCFGPD rate for 1 hr 20 min thru 22/64" ck, rec cond @ rate 35 BPD, TP 1600#.

Crd 4995-5055, rec 3½ ls, med grey, fine-med crys, dense, sparsely foss (brachs); 5 ls, med grey, fine crys (sparkly sucrosic), excellent pp to vuggy poro, good spotty stain, excellent cut & odor, bleeding oil & gas in spots, oil clear; 21 ls, med grey-dark grey, fine crys, sli arg, excellent vuggy ppp, good spotty stain, good odor, excellent yellowish-white fluor, excellent cut; 1 ls, med grey, fine crys, sli arg, few small scattered pp, no stain on outside of core but light tan streaks on fresh fractures, good streaked fluor, almost solid, good odor, good cut, probably mostly intercrys poro; 3½ ls, med grey, fine crys, arg foss (brachs), few scattered pp & small vugs, spotty-uneven stain, good odor, excellent yellow-white fluor, almost entire, good cut, some light tan streaked stains as above, probable intercrys poro; 2 dolo, tan, arg, fine crys, no visible poro (not sucrosic) uneven stain, spotty, yellow-white uneven fluor, good odor, excellent cut; 2½ ls, med grey, fine crys, dense, sli arg, few scattered brach fossils, several styolitic partings filled w/black sh; 2½ dolo, med grey, arg, few scattered small pp, sucrosic (sparkles), few small anhy inclusions, spotty stain, good odor, spotty to dense yellow-white fluor, fair-good cut; 4 dolo, light grey, fine crys, dense, grey ls inclusions w/black sh cushion; 6½ sh, black, very calc; 3 ls, dark grey, fine crys, dense, arg; 2 ls, med grey, fine crys, dense, arg, few small scattered pp, uneven stain, bleeding oil & gas, good yellow-white fluor, good odor & cut; 2½ ls, med grey, fine crys, dense, arg. DST 4984-5055, 2 hrs, gas in 2½ min @ max rate 9000 MCFPD, rec 5 cond, FP 1200#, SIP (1 hr) 2100-2040#, HP 2500#. Crd 5055-5115, rec 9½ ls, med-dark grey, fine crys, dense, sli arg, hairline horizontal fractures, sh partings; 4½ ls, light grey, fine, dense, very sli arg, fair, pp to visible small vuggy poro, bleeding gas, oil & wtr, good odor, good yellowish white fluor, spotty to uneven stain, good cut & odor; 1 ls, light grey, fine, sli arg, scattered pp small vugs, poro less than above but probably contains non-visible intercrys poro,

(contd)

bleeding gas, oil & wtr, spotty-uneven stain, wet & salty, spotty yellowish white fluor where oil bleeding from vugs, good cut & odor, ls soft & crumbly; 1 ls, greyish-tan, fine crys, dense, arg, no visible poro, even stain, good odor, yellowish brown fluor, fairly even, fair cut; 1 ls, med grey, fine crys, dense, sli arg, no visible poro, some fragments have faint odor, uneven stain, no fluor; 1 ls, med grey, fine crys, dense, sli arg, few scattered vugs & pp, probably mostly non-visible intercrys poro, spotty stain bleeding oil gas & wtr, spotty white golden fluor, poor-fair cut, good odor; 1 ls, greyish-brown, fine crys, dense, sli arg, no visible poro, probably non-visible intercrys poro, bleeding oil & gas, good odor, spotty-uneven stain, golden white fluor, fair-good cut; 1½ ls, greyish tan, fine, dense, sli arg, few scattered small vugs & pp, uneven stain, vertical fracture bleeding wtr; 3 ls, med grey-greyish tan, fine crys, dense, very sli arg, no visible poro, styolitic partings, vertical fracture; 1½ ls, dark grey, fine crys, dense, sli arg; 2 ls, dark grey-black, arg, fine crys-med, dense, no visible poro, styolitic parting & hairline fractures; 23 ls, very dark grey, grading to black @ bottom of interval, fine crys, dense, very arg & very carb, no visible poro, sh partings; 4 ls as above but w/hairline fractures w/wet stain. Crd 5325-5385, rec 6 ls, med grey, fine-crypto crys, dense, sli arg, styolitic parting; 6 ls, med-dark grey, fine-crypto crys, sli arg, no visible poro, styolitic parting, anhy & calc inclusions; 1½ ls, dolomitic, dark grey, fine crys, dense, no visible poro; ½ sh, black, sli calc, very carb; 8 ls, dark grey-black, carb, fine-med crys, no visible poro, sparsely foss, small brachs, sh partings; 21 ls, sli dolo, dark grey, med crys, sucrosic, sli arg, no visible poro, sh; 10 ls, dark grey, fine crys, dense, arg, no visible poro, hairline fractures; 10 dolo, sli limey, dark grey-black, fine crys, arg, no visible poro. Crd 5385-5445, rec 3½ ls, dark, med grey, fine crys, dense, sli arg, no visible poro, vertical fracture; 3 ls, med grey, fine crys, sli arg, scattered pp to small vugs, fair perm, spotty stain, sli bleeding oil & gas, good odor, spotty yellowish-white fluor, fair yellowish-white cut; 1½ ls, light grey, med crys, sli arg, dense, fine phaneric crys texture; 5 ls, med grey, fine, dense, sli arg, small scattered vugs, bleeding oil & gas, spotty stain, fair good odor, fair-streaked gold-yellowish white fluor, poor-fair cut golden; 3 ls, dolo, med grey,

(contd)

SUPERIOR OIL #2 NAVAJO "H", sw sw 16-41n-30e, APACHE COUNTY, ARIZONA

fine crys, dense, arg, no visible poro, anhy inclusions; 2 dolo, limey, dark grey, fine-crys, dense, arg, no visible poro; 1½ as above only med-dark grey, sli arg, anhy inclusion; 2½ ls, dark grey, fine crys dense, arg, no visible poro, hairline vertical fracture; 5 ls, med-dark grey, fine-crys, dense, arg, no visible poro, large dolo inclusion, hairline fractures; 8 ls, dolo, light grey, fine-crys, dense, sli arg, sh parting; 7 ls, med grey, fine-coarse, arg, bleeding salt wtr w/sulfur taste, spotty stain, looks wet, good poro, pseudo-oolitic, very spotty yellowish-white fluor, faint odor, very poor cut, remainder light grey ls, coarse crys, few widely scattered small vugs, few pp fluor; 4 ls, dolo, light grey, fine crys, dense, arg, no visible poro, spotty dull olive fluor; 4 dolo, dark grey, fine, dense, no visible poro, small sh or carb inclusions; 7½ ls, dark grey, fine crys, dense, fragmental spotty appearance, very arg, many hairline fractures & thin sh partings, stain on fractures; 2½ ls, light grey, fine crys, arg, fair-good pp to vuggy poro, even stain, feels wet. Crd 5445-5505, rec 11 ls, light grey, crys, dense, no visible poro, wet, very sli gas odor, very sli yellow fluor; 6 ls, med grey, very fine crys, hard, dense, very arg; 3 sh, black, limey; 13 ls, med grey, fine, med crys, occasional vertical fracture; 5 ls, med grey, med crys, fine ppp, bleeding oil & gas, uneven stain, sulfur odor, sli fluor; 4 ls, light grey, med crys, no visible poro; 14 dolo, med grey, sucrosic, some intercrys poro, strong sulfur odor, wet, fair fluor; 2½ ls, dark grey, fine crys, foss, hard, dense, no visible poro; 1½ sh, black, limey. Crd 6075-6085, rec 10 ls, white to light grey, fine-crys, trace intercrys poro, streaks dolo, sli ppp, nodules smokey to black chert, streaks rotten red sh, occasional vertical fractures. Crd 6085-6093, rec 8 ls, light-grey, fine-crys, dolo streaks, chert nodules, vertical fractures. Crd 6093-6144, rec 5 ls, white-light grey, fine crys, hard, dense, w/red sh streaks & black chert nodules; 10 ls, light grey, fine-crypto crys, hard, dense, sli vuggy poro, vertical fractures, trace gas odor on fresh break, very pale yellow fluor; 11 ls, light grey, fine-crys, hard, dense, trace ppp, styolites; 2 dolo, dark grey, fine-crys, good vuggy poro, even golden fluor (cut), light brown stain, sli gas odor; ½ ls, light grey, fine-crys, no visible poro, extremely light, spotted stain; 22½ dolo, dark grey, fair, excellent vuggy poro, sli gas odor, light stain, good golden fluor, fractured, shaley in parts.

(contd)

SUPERIOR OIL #2 NAVAJO "H", sw sw 16-41n-30e, APACHE COUNTY, ARIZONA - 5

Crd 6144-6204, rec 11½ dolo, light grey, fine, excellent vuggy poro, trace stain @ top, rest wet; 11 dolo, light grey, vertical fractures, sli vuggy poro, rest dense, sli sulfur odor, styolites; 11½ ls, light grey, med, crypto-crys, hard, dense, no visible poro, streaks pale green limey sh, pyritic styolites; 12 dolo, light grey, vertical fracture, granular to intergranular poro; 14 interbedded ls, dolo, sh, highly fractured, ls, white, very crypto-crys, hard, dense, dolo light grey, vertical fracture, hard, dense, sh red & green, dolomitic. DST 5923-6204, 2 hrs, fair blow air immed decreasing to weak by end of test, rec 185 mud, 3035 salt wtr, FP 550-1900#, SIP (1 hr)2730-2090#, HP 2990#. Crd 6456-6516, rec 10 dolo, med grey, fine, some ppp, dead gilsonite stain & live brown stain, spotty light, wet, bleeding gas & oil, good odor, good fluor & cut; 7 dolo, light grey, fine, trace free poro, very sandy, some glauconitic sd; 7 sh, red, hard, dolomitic, fractures; 21 dolo, resinous, red, very fine, sucrosic, very hard, dense, sandy, shaley, specks glauconite, fractured; 2 dolo, light grey, fine, sucrosic, light stain, sandy, conglomeratic; 7 sh, red, dolo, fractures; 6 dolo, mottled, grey-green, very fine, sucrosic, light, sli sandy, shaley. Crd 6516-6576, rec 12 dolo, red brown, mottled, fine, sucrosic, very hard, dense, sli sandy, sli shaley; 3 dolo, brown, light grey, fine, sucrosic, dense, hard, very sli sandy w/streaks green sd, shaley; 8½ dolo, brown, light grey, sucrosic, dense, hard; ½ dolo, white, fine crys, irregular vuggy poro w/dead gilsonite bleeding, stain, fair odor; 5 dolo as above, no poro or show, interbedded w/grey & green sh; 7 light green dolomitic, stained, sandy; 13 dolo, grey-brown, fine, very dense, very hard, pyritic w/interbedded grey sh, dead stain on vertical fractures; 11 sh, black, dolomitic, w/nodules of grey dolo, very hard very dense. Crd 6576-6608, rec 4 dolo, light grey, fine crys, hard, fractured, poro, sli shaley, good gas odor, cond stain along fracture, no visible oil stain, good fluor along fracture; 28 dolo, light grey, fine-crypto crys, excellent vuggy poro, much dead gilsonite stain, good gas odor, yellow fluor, fractured, some interbedded gypsum, little live brown stain, trace disseminated sd. Crd 6608-6645, rec 13 dolo, light grey-tan, excellent vuggy poro, good gas odor, much gilsonite stain, good fluor (spotty), connate wtr intermingled w/cond, vertical fractures; 7 dolo, light grey, few vugs, tight, shaley, scattered dead stain, spotty light fluor,

(contd)

SUPERIOR OIL #2 NAVAJO "H", sw sw 16-41n-30e, APACHE COUNTY, ARIZONA -

fractured; 13 dolo, light [illegible], fine-crys, very hard, tight, w/interbedded [illegible]reen waxy sh, pyritic along fractures; 4 quartzite, red, very fine, dolomitic. Crd 6645-47, probably red quartzite. Crd 6647-6681, rec 34 quartzite, red-brown, very fine, conchoidal fractures, many vertical fractures, green-glauconite dolo & anhy inclusions, very hard & tight, trace red stain. Crd 6681-6691, rec 10 quartzite, dark red-brown, fine crys, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing, few glauconite inclusions disseminated thruout, black sh in few vertical fractures, remainder filled by siliceous cement. Crd 6691-6700, rec 9 quartzite, dark red-brown, fine crys, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing, few glauconite inclusions disseminated thruout, black sh in few vertical fractures, remainder filled by siliceous cement. Crd 6700-6724, rec 24 quartzite, dark red-brown, fine crys, breaking w/conchoidal fractures, very hard &dense, abundant vertical fracturing, few glauconite inclusions disseminated thruout, black sh filling few vertical fractures, remainder filled by siliceous cement, w/sli granular appearance resulting from color contrast between cement and what were once sd grains, still remaining quartzite. Crd 6724-6750, rec 20 quartzite, dark red-brown, very hard & dense, numerous vertical fractures disseminated thruout interval, small glauconite inclusions scattered thruout, dark green iron stains scattered thruout, one horizontal fracture filled w/white calcite; 6 as above only darker reddish-brown, fewer glauconite inclusions, few dark red quartz grains, numerous small fractures filled w/calcite. Crd 6750-76, rec 23 quartzite, reddish-brown, few scattered glauconite inclusions, vertical fractures, old fractures filled w/light red siliceous cement (horizontal & vertical), sli calc, fair effervescence, some fractures w/white calcite. Crd 6776-6786, rec 10 quartzite as above 23. DST 6578-6645, 2 hrs, fair blow of air immed, decreasing to very weak by end of test, rec 90 very sli GCM, 4735 salt wtr, FP 0-2150#, SIP(1 hr) 3000-2250#, HP 3200#. DST 6576-94 (straddle pkr), 2 hrs, weak blow air thruout test, rec 1330 salt wtr, FP 0-500#, SIP(1 hr) 2250-2250#, HP 3200#. DST 6445-6466 (straddle pkr), tool failed to open. DST 6445-6466 (straddle pkr), 2 hrs, very weak blow of air for 30 min, dead balance of test, rec 28 mud, FP 0#, SIP (1 hr) 0#, HP 3250#.

###

13

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: The Superior Oil Company	Address: P. O. Drawer 'G', Cortez, Colorado 81321
Federal, State or Indian Lease Number or name of lessor if fee lease: Navajo #14-20-603-367	Well Number: H #14-16 / Field & Reservoir: Twin Falls Creek
Location: 660' FSL, 810' FWL	County: Apache
Sec. TWP-Range or Block & Survey: SW SW Sec. 16, T41N, R30E, GS&RM	

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.)	Elevation of casing hd. flange
10-19-57	12-27-57	1-19-59	5126' KB feet	5111 feet

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
6787'	5644'	Single	

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
4999-5071'	Surface to TD	

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

Type of electrical or other logs run (check logs filed with the commission)	Date filed
I-ES, GRN, Laterolog, Micro Laterolog, CDM, Density Log	2-17-59

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
	13-3/4"	10-3/4"	32.75#	1054'	500	0
	9"	7"	20 & 23#	5697'	600	1897'

TUBING RECORD			LINER RECORD				
Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2½ in.	5076 ft.	ft.	in.	ft.	ft.		

PERFORATION RECORD			ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD	
Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
4		4999-5032', 5035-40',	8500 gals Ret. Acid	4999-5040'
		5063-71'	1750 gals Ret. Acid	5063-5071'

INITIAL PRODUCTION

Date of first production	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)
12-24-63	Flowing Gas

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
2/10/59	7	Various	Condensate 6.45 bbls.	Open Flow Potential 12,500 MCF	Trace bbls.	64.8° API (Corr)

Tubing pressure	Casing pressure	Cal'ted rate of Production per 24 hrs.	Oil	Gas	Water	Gas—oil ratio
1803 DWT	1820 DWT		bbls.	MCF	bbls.	99,013

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Engineer of the The Superior Oil 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.

May 24, 1968
Date

D. D. Kingman
Signature D. D. Kingman

Permit No. 46

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

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
De Chelly	2363'		
Organ Rock	2695'		
Hermosa	4162'		
Ismay	4879'		
Gothic Shale	5041'		
Chimney Rock	5172'		
Second Barker	5367'		
Molas Shale	5781'		
Weathered Leadville	5870'		
Unweathered "	5900'		
Devonian Elbert	6227'		
Quartzite	6640'		

* 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 drillers 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.

Form No. 4

NOT FOR PUBLIC INFORMATION

13

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O & G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

Operator The Superior Oil Company Field Wildcat
Street P. O. Box 276 Pool
City Cortez State Colorado County Apache
Lease Name Navajo "H" Well No. 14-16 Acres in Unit 2640
Location 660' FSL & 810' FWL
Sec. 16 Twp. 41N Rge. 30E
Elevation ~~KKB~~ 5126 GR 5112 Electric Log Run December 23, 19 57
Number of Crude Oil Producing Wells on this Lease, including this well None
Has Authorization to Transport Oil or Gas from Well, Form O&G 57 been Filed? No

OFFICIAL COMPLETION GAUGE

Date Test Commenced 2-10 1959 Hour 10:00 A M. Date Test Completed 2-10 19 59 Hour 5:00 P M
Length of Test 7 Hours Minutes Open flow potential 12,500 MCF/day
For Flowing Well: For Pumping Well:
Flowing pressure on Tbg. Varied lbs./sq.in. Length of stroke used inches
Flowing pressure on csg Varied lbs./sq.in. Number of strokes per min.
Size tbg. 2½ in. No. ft. run 5076 Size of working barrel inches
Size choke Varioun in. Type choke Adjustable Size tubing. in. No. ft. run
Length in. Shut in pressure 1757 psig
If flowing well, was this well flowed for the entire duration of this test without the use of swab or other artificial flow device? Yes If jetted, used cu. ft. gas per bbl. oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.)
Gas-oil ratio of this well is 99,013 cu. ft. of gas per bbl. of oil.
Per cent water produced during this test trace.
Gravity of oil produced during this test (Corrected to A. P. I. 60° F) 64.8°
Name of Pipe Line or other carrier None
If perforated: No. Shots 184 From 4999 To 5071 Date Perforated 1-16-59
Date well Spudded October 19, 19 57. Date Well Completed 1-19-59 19
Top Pay 4999 Ft. Total depth of well 5697 Ft. 5644 PBTD

CASING LINER AND TUBING RECORD

String	Size	Wt./Ft.	Name and Type	Amount Ft. In.	Depth Set at	Perforated From		To
Surface	10-3/4"	32.75#		1027	1044'	None		
Production	7"	20# & 23#		5684	5697'	4999	-	5032
						5035	-	5040
						5063	-	5071
Tubing	2½"	6.5#			5076'			

CEMENT AND TESTING RECORD

125 bbl 54.8° gr. d

Size of Hole	String	Where Cement Placed	No. Sacks of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
13-3/4"	Surface	1044'	500	Cement circulated to surface.			
9"	Production	5697'	600	Pump & plug.			

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	Depth From	to
#1	Wash Acid	250 Gals	1-14-59	5063	5071
#2	Retarded Acid	1500 gals	1-15-59	5063	5071
#3	Wash Acid	500 gals	1-16-59	4999-5032, 5035-5040.	
#4	Retarded Acid	8000 gals	1-17-59	4999-5032, 5035-5040	

AFFIDAVIT

I, David D. Kingman, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

David D. Kingman
Representative of Company

Subscribed and sworn to before me this 17 day of February 1959

Bree L. West
Notary Public

My Commission expires: MY COMMISSION EXPIRES AUGUST 28, 1962 County, ~~Ariz.~~ MONTEZUMA, COLORADO

23 46

RECEIVED
FEB 18 1959
DATE

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse 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 [ ] GAS WELL [X] OTHER

2. NAME OF OPERATOR
THE SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. DRAWER "G", CORTEZ, COLORADO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
660' FSL & 810 FWL, Sec. 16, T41N, R30E

5. LEASE DESIGNATION AND SERIAL NO.
14-20-603-367

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Nvajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo 'H'

9. WELL NO.
#14-16

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 16, T41N, R30E

12. COUNTY OR PARISH: Apache

13. STATE: Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5126' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[X]
(Other)			

(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.)*

Squeezed perfs with 50 sacks cement with tubing hung at 5076'. Equalized 50 sack plug with tubing hung to 5038'. Filled hole with water and tested with 500 psi. Cut and pulled 7" casing from 1897'.

Equalized 50 sack plug with tubing hung to 1934'.
Equalized 50 sack plug with tubing hung to 1076'

Placed 10 sack plug in surface and erected standard dry hole marker. Location is now cleaned up and ready for inspection.

Ale

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

SIGNED D. D. Kingman TITLE District Engineer DATE 5/24/68

(This space for Federal or State office use)

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

DDK/njh

*See Instructions on Reverse Side

cc: State 2, USGS 4, Franques, Broussard, File

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-685220

667-851

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse 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 [ ] GAS WELL [X] OTHER

2. NAME OF OPERATOR: THE SUPERIOR OIL COMPANY

3. ADDRESS OF OPERATOR: P. O. DRAWER 'G', CORTEZ, COLORADO

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660' FSL & 810' FWL, Sec. 16, T41N, R30E

5. LEASE DESIGNATION AND SERIAL NO.: 14-20-603-367

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Navajo

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Navajo 'H'

9. WELL NO.: #14-16

10. FIELD AND POOL, OR WILDCAT:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 16, T41N, R30E

12. COUNTY OR PARISH: Apache

13. STATE: Arizona

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5126' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[X]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]
(Other)			

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
(Other)			

(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.)*

10-3/4" casing set at 1044' with cement circulated to surface.
7" casing set at 5697' with 600 sacks. Cement top 3100' by temp. survey.

Propose to plug and abandon this well as follows:

1. Squeeze perfs 4999-5071' with 50 sacks cement.
2. Pull 7" casing. Maximum amount recoverable will be 3000'.
3. Will equalize 100 foot plug with tubing hung 50' below casing cut.
4. Will equalize plug across De Chelly formation if casing cut is below top of De Chelly.
5. Will equalize 100' plug with tubing hung 50' below base of surface pipe.
6. Will place 10 sack plug at surface and erect a standard dry hole marker.

RECEIVED APR 5 1968 STATE O & G CONS. COMM.

46

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

SIGNED D. D. Kingman TITLE District Engineer DATE 4/3/68

D. D. Kingman

(This space for Federal or State office use)

APPROVED BY X TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

DDK/njh

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1624 WEST ADAMS - SUITE 202
TELEPHONE: 271-5161
PHOENIX, ARIZONA, 85007

*See Instructions on Reverse Side

cc: State of Ariz. (2), USGS - Farmington, Franques, Broussard, Pohlman, File

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Federal, State or Indian Lease Number, or lessor's name if fee lease	Field	Reservoir
Navajo Lse #14-20-603-367	Twin Falls Creek	Paradox
Survey or Sec-Twp-Rge	**County**	**State**
Sec. 16, T41N, R30E	Apache	Arizona

Operator: The Superior Oil Company

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
P. O. Drawer 'G'	Cortez	Colorado #81321

Above named operator authorizes (name of transporter): The Permian Corporation

Transporter's street address	City	State
P. O. Box 3119	Midland	Texas #79701

Field address: 818 E. Main Street, Farmington, New Mexico

Oil, condensate, ~~gas~~

To transport 100.0% of the Condensate from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

Change of Gatherer (Formerly McWood Corp.) - Effec. 3/1/67.

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Supt. of the The Superior Oil 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.

March 20, 1967
Date

W H Fraser
Signature W. H. Fraser

Date approved: 3-21-67

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: John Bannister

Permit No. 46

RECEIVED MAR 21 1967 STATE O & G CONS. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease

File Two Copies

Form No. 8

Form 23-55(1-56)

OIL CONSERVATION COMMISSION

~~BOX 697~~

~~120 EAST CHACO~~

~~AZTEC, NEW MEXICO~~

3500 N. Central Avenue - Phoenix, Arizona

NOTICE OF GAS CONNECTION

DATE December 30, 1963

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR THE PURCHASE OF GAS FROM

THE Superior Oil Company (OPERATOR)

Navajo H #14-16 (LEASE) "M" (WELL UNIT) 16-41S-30E (S-T-R)

Boundary Butte Paradox (POOL) El Paso Natural Gas Company (NAME OF PURCHASER)

WAS MADE ON December 27, 1963 (DATE), FIRST DELIVERY December 27, 1963 (DATE)

AOF 12,500 MCF
INITIAL POTENTIAL

El Paso Natural Gas Company
PURCHASER

S. C. Gellenes
REPRESENTATIVE

Assistant Chief Dispatcher
TITLE

CC: TO OPERATOR Houston and Cortez
~~OIL CONSERVATION COMMISSION - SANTA FE~~
F. N. WOODRUFF - EL PASO
~~B. D. ADAMS~~ R. L. Weir

FILE

46 10

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Lease	Field	Reservoir
Navajo 'H' #14-16	(Not Named)	Paradox
Survey or Sec-Twp-Rge	**County**	**State**
Section 16, T41N, R30E	Apache	Arizona

Operator: The Superior Oil Company

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
P. O. Drawer 'G'	Cortez	Colorado

Above named operator authorizes (name of transporter): El Paso Natural Gas Company

Transporter's street address	City	State
P. O. Box 1492	El Paso	Texas

Field address: P. O. Box 990, Farmington, New Mexico

To transport 100 % of the Gas Well Gas (Oil, condensate, gas well gas, casinghead gas) from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

New Lease

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Superintendent of ~~XX~~ The Superior Oil 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.

September 12, 1963
Date

W H Fraser
Signature W. H. Fraser

Date approved: Sept. 20, 1963

Commissione 's Number; 6

File No.

By: John K. Petty
Acting Executive Secretary

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to Transport oil or Gas from Lease
Form No. P-17 File three copies
~~Authorized by Order No.~~
~~Effective~~ ~~April~~ 19~~60~~

46,2A

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE

Lease	Field	Reservoir
Navajo ~~XX~~ 'H' #14-16	(Not Named)	Paradox
Survey or Sec-Twp-Rge	**County**	**State**
Sec. 16, T41N, R30E	Apache	Arizona

Operator: The Superior Oil Company

ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:

Street	City	State
P. O. Drawer 'G'	Cortez	Colorado

Above named operator authorizes (name of transporter)

McWood Corporation

Transporter's street address	City	State
Oil & Gas Building	Abilene	Texas

Field address: 818 E. Main St., Farmington, New Mexico

Oil, condensate, gas well gas, casinghead gas

To transport ____ % of the Condensate from said lease.

OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:

Name of gatherer	% transported	Product transported

Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.

New Lease

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

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

Signature J. M. Brittain

Date approved: Dec 30, 1963
John K Pathy

By:

Commissione 's Number: 8

File No.

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to Transport oil or Gas from Lease
Form No. P-17 File three copies
[redacted]

Signed copy mailed 12/31/63

46

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form O&G 53

Form Prescribed Under Oil and Gas Conservation Act of 1951

CAPACITY TEST REPORT
BACK PRESSURE TEST OF GAS WELL
(Critical Flow Prover or Orifice Meter)
OPEN FLOW POTENTIAL TEST

NOT FOR PUBLIC INFORMATION

Date February 10 19 59

Operator The Superior Oil Company Field Wildcat

Lease Navajo #14-16 Well Ac.

Acres Under Well Connection None

Reservoir Wildcat County Apache

Sand Depth 5035' Csg. 7" @ PBTD 5644 Tubing 2½" @ 5076'

Gr. of Gas Est. 0.705 Size Line and Meter ~~or Prover~~ 4" & 2"

Is Volume Corrected to sand face? Yes

	Closed Pres. 2078 psia Lbs.		P_f^2 4318.1	Back Pressure Test		
Orifice Size	Coeff. 24 Hr.	Surface Working Pressure	P_s^2	If Orifice Meter Used Lb.		Volume MCF*
4.026 x 1.000	28.855	1719.2 psia	4072.0	850#	74.8"	1,648
4.026 x 2.000	120.30	1683.2 psia	3976.0	850#	8.1"	2,074
4.026 x 2.000	120.30	1612.2 psia	3561.1	850#	19.4"	3,514
4.026 x 2.000	120.30	1550.2 psia	3445.1	850#	25.0"	4,002

Volume - 24 Hour 12,500 M. C. F.

Open Flow Test

Shut In Pres. Time Shut In

REMARKS
Water- Oil - Etc.
(Important)

Producing Through

TIME	READING	LIQUID USED	SPRING GAUGE
15 Min.			
20 Min.			
25 Min.			
30 Min.			

Test Until Two Readings Check

OPEN FLOW CAPACITY MCF per 24 Hrs.

*Includes Low Pressure flash gas.

Avg. GOR 99,013

Liquid gravity 64.8°

SIGNATURES

BOARD
CON.
CO. [signature]
OTHER

(ACCOMPANY THIS REPORT WITH A BACK PRESSURE CURVE)

5/12/58

46

[redacted]

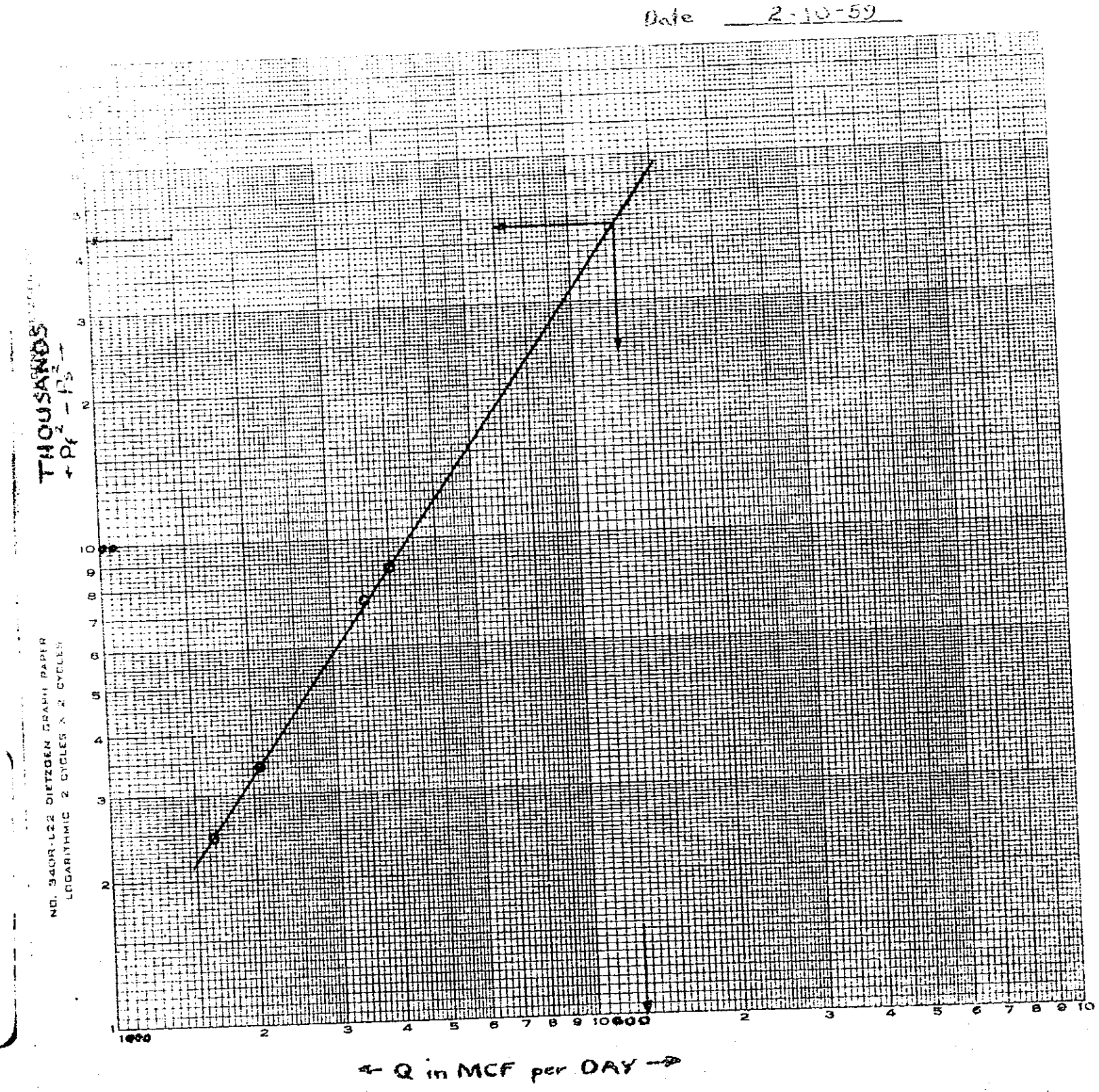
BACK PRESSURE TESTS WRIVE

Operator [illegible]

Lease [illegible]

Volume [illegible] MCF/Day

Date 2-10-59



NOT FOR PUBLIC INFORMATION

Form 9-331 b
(April 1952)

X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency Window Rock

Allottee Navajo

Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	X	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

5 January, 1959

Well No. H #14-16 is located 660 ft. from {N/S} line and 810 ft. from {E/W} line of sec. 16

SW SW Sec 16 (¼ Sec. and Sec. No.) 41N (Twp.) 30E (Range) GS & RM (Meridian)

Wildcat (Field) Apache (County or Subdivision) Arizona (State or Territory)

The elevation of the derrick floor above sea level is 5126 ft. K.B.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded: 19 October 1957

Suspended: 27 December 1957

Total Depth: 6787' P.B.T.D. 5697'

Casing: 7" casing at 5697' with 600 sacks.

Propose to perforate well as follows:

(Over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Box 276
Cortez, Colorado

By G. Bannantine
G. Bannantine
Title Petroleum Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—84376-8

46 14

1. 5063 - 5071' w/4 holes per foot.
   Wash perfs with MCA, acidize same and test zone.

2. Set retrievable bridge plug @ 5055'.

3. Perforate w/4 holes per foot:

4896 - 4900'	4999 - 5032'
4906 - 4909'	5035 - 5040'
4966 - 4971'	

   Wash perfs with MCA, acidize same and test zone.

4. Retrieve bridge plug and commingle both zones.

11-7-57: Core #1 4995-5055. Rec 60'

3½' ls, medium gray fine med. xlyn dense, sparsely fessiliferous (brache), no show, odor or stain

5' ls, med gray, fn xlyn, excellent pinpoint to vuggy porosity, good spotty stain, excellent cut & odor. In spots bleeding oil & gas. Oil is clear in ~~[illegible]~~ color.

21' ls, med gray-dark gray, fn xlyn, sli. argill, excellent vuggy porosity, good spotty stain, good odor, excellent yellowish-white fluor, excellent cut.

1' ls, medium gray, fn xlyn, sli argill. few small scattered pinpoints, no stain on outside of core, but light tan streaks on fresh fractures, oil stain-good streaked fluor, almost solid, good odor, good cut. probably mostly inter-xlyn porosity.

3½' ls, med, gray, fn xlyn, argill fessil (brachs) for scattered pinpoints & small vugs, spotty-uneven stain, good odor, excellent yellow-white fluor, almost entirely, good cut. Some light tan streaked stains as as above (oil stains?), probably inter-xln porosity

2' dolomite, tan, argill, fn xlyn, no visible porosity, uneven stain, spotty, yellow-white uneven fluor, good odor, excellent cut

3½' ls, med gray, fn xln, dense, sli argill, ~~[illegible]~~ no odor, stain or show. Few scattered brech fessile, several styelitic partings filled w/ black shale.

2½' dolomite, med. gray, argill, few scattered small pinpoints, sucresic, few small anhydrite inclusionsm spotty stain, good odor, spotty to dense yellow-white fluor, fair-good cu .

4' dolomite, light gray, fn xlyn, dense, gray ls inclusions w/black sh cushion, no show, odor or fluor.

Superior Oil Co scout ticket 46

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "[illegible]" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FEL 810FWL Area Wildcat

Csg. Size	Depth	Cement
10 3/4	1044	500sx
7	5697	600sx
	(11-2-57)	

On File: S.L. E.L. W.L.

Spud 10-19-57

Comp/Abd

T.D. 6787 PD 5644

Elev. 5091 G 5105DF KB

Por. Hor. o

Por. Hor. ★

I. P. Calc. Open Flow Potential 12,5000 MCFPD SHUT IN

Geological Tops	Scout	Samp.	E. Log	S-Sea
Mechelly			2363	
Organ Rock			2695	
Hermosa			4162	
Upper Boundary-Butte			4879	
Desert Creek				
Tongue			5041	
Lower Boundary Butte			5048	
Chimney Rock			5172	
Hogback			5256	
1st Barker			5340	
2nd Barker			5367	
3rd Barker			5589	
Molas			5781	
Weathered Leadville			5854	
Unweathered Leadville			5900	
Madison			6122	
Elbert			6227	
Aneth			6555	
Quartzite (PRE-Cambrian)			6640	

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FSL 810 FWL Area

Csg. Size	Depth	Cement

On File: S.L. E.L. W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ⊙

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
23' ls, very dark gray, grading to black at bottom of interval, fn xln, dense, very argill and very carbonaceous, no visible porosity, no odor or fluor, Sh parting 88-90, 93-93, 96-97				
4' ls, as above but w/hairline fracs 5112=15, w/wet stain, but no fluor, odor or show, stain along fracs.				
11=14-57 Core #3 5325-5385, Rec 60'				
6' ls, med gray, fn-crypto xln, dense, sli argill, no/~~visible~~ show or odor, styelitic parting at 30.				
6' ls, med-dark gray, fn-crypto xln, sli argill, no visible porosity, styelitic parting at 33½, anhydrite and calc inclusion at 37, no show or fluor.				
1½ ls, dolomitic, dark gray, fn xln, dense, no visible porosity, no show or fluor				
½' shale, black, sli calc, very carbonaceous no shows				
8' ls, dark gray-black, carbonaceous, fn-med xln, gradational towards bottom of interval, no visible porosity, sparsely fossiliferous, small brachs, shale parting at 45.				
21' ls, sli dolo, dark gray, med xln, sucrosic, sli argill, no visible porosity.				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

APACHE, ARIZONA

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FSL 810 FWL Area

Csg. Size	Depth	Cement

On File: S.L. E.L. W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ⊙

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
6½' sh, black, very calc, no show or odor				
3½ ls, dark gray, fn xln, dense, argill, no show or odor				
2' ls, med. gray, fn xln dnse, argill, few small scattered pinpoints, uneven stain, bleeding oil and gas, good yellow-white fluor, good odor and good cut				
2½' ls, med. gray, fn xln, dense, argill, no show				
DST #1 4984-[illegible], [illegible] hrs, gas to surface in 2½ minutes, [illegible] gas rate 9,000 MCFGPD. Well [illegible] pressure 240#-270#. Shut in for 60 [illegible] final shut in pressure. Rec [illegible] ISIP 2800#, BHEP 1200#, [illegible] HP 2800#.				
11-10-57: Core #2 5055-5115, Rec 40'				
9½' ls, med-dark gray, fn xlyn, dense, sli argill, no visible porosity, hairline fracs (horizontal) from 60-64½, also several sh partings, No show or fluor,				
½' ls, light gray, fn xln, dense, very sli argill, pinpoint to visible small vuggy porosity, vugs can be seen easily with naked eye, bleeding [illegible] oil & water, good odor, good yellow [illegible] fluor, spotty to uneven stain, [illegible] odor				
1' ls, light gray, fn [illegible] argill				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

no show or odor, shale at 61½-62.
10' ls, dark gray, fn xln, dense, argill, no visible porosity, no show or odor, hairline frac at 75.
7' dolomite, sli limey, dark grey-black, fn xln, argill, no visible porosity, no show or odor

11-16: Core #4 5335-5445, Rec 60'
3½' ls, dark, med. gray, fn-xln, dense, sli argill, no visible porosity, no show or odor, v. frac 88½ - 89
3½' ls, med. gray, fn-xln, sli argill, scattered pinpoint to small vugs, permeability not too good, spotty stain, sli bleeding oil & gas, good odor, spotty yellowish-white (almost white) fluor, fair yellowish white cut
1½' ls, light gray, med-xln, sli argill, dense, has a fine phaneric xln texture, no show or odor
5' ls, med. gray, fn xln, dense, sli argill, small scattered vugs and P.P. w/gold xlns in and around, bleeding oil and gas, spotty stain, fair-good odor, fair-stressed gold-yellowish white fluor, poor-fair cut golden
3' ls, dolo, med. gray, fn xln, dense, argill, no visible porosity, no show or odor, anhydrite inclusions
2' dolomite, limey, dark gray, fn-xln, dense, argill, no visible porosity, no show or odor
1½' same as above only med-dark gray, sli argill, has anhydritic inclusion
2½' ls, dark gray, fn xln, dense, argill, no visible porosity, no show or odor, hairline v. frac at 05.
5' ls, med-dark gray, fn-xln, dense, argill, no visible porosity, no show or odor.
Large dolo inclusion at 90. Hairline

APACHE, ARIZONA

Operator: The Superior Oil Co.
Well: Navajo "W" No. 14-16
Loc: Sec. 16 Twp. 41N Rge. 30E
Coord. 6606 810 W Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud
Comp/Abd
T.D.
Elev. G KB
I. P.

Por. Hor. o
Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
Fracs 9-10				
8' ls, dolo, light grey, fn-xln, dense sli argill, no show or odor, 1/2" shale parting at 20.				
7' ls, med. grey, fn-cse xln, argill, bleeding salt wtr w/sulphur taste at 22½-24 Spotty stain, looks wet, pseudo-oolitic, spotty yellowish white fluor, faint odor, very poor cut, rest of interval ls light grey ls, cse xln, few widely scattered small vugs, few pinpoints of fluor.				
4' ls, dolomitic, light grey, fn xln, dense, argill, no visible porosity, spotty dull olive fluor, no cut, no show				
4' dolomite, dark grey, fn xln, dense, no visible porosity, small shale or carbonaceous inclusions, no show, odor or fluor, black sh 33½-34				
7½' ls, dark grey, fn xln, dense, has a fragmental spotty appearance but no difference in core, very argill, no show or odor, many hairline fracs and thin shale parting 38-42. Stain on fracs, no odor or fluor.				
2½' ls, light grey, fn xln, argill, fair-good pinpoint to vuggy porosity, has an				

Crest Printing SM 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

Apache, Arizona

Operator: The Superior Oil Company No. 14-16

Well: Navajo "41"

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660'FSL 810 FWL Area

Csg. Size	Depth	Cement

On File

S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. o

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sec
11' ls, light grey, fn xln, hard, dense trace pinpoint porosity, stylolites, no stain, no fluor, no odor				
2' dolomite, dark grey, fn xln, good vugular porosity, even golden fluor (cut) light brown stain, s/gas odor				
½' ls, light grey, fn xln, no visible porosity, extremely light spotted stain, no fluor.				
22½' dolomite, dark grey, fair-excellent [illegible] vugular porosity, s/gas odor, light stain, good golden fluor, frac, shaly in parts				
12-2: core #9 6148-6264, Rec 60'				
11½' dolomite, light grey, fn-gran, excellent vuggy porosity, no gas odor, trace stain at top, no stain, rest, wet				
11' dolomite, light grey, vertical fracture, s/vug porosity, rest dense, NS, NF, s/sulfur odor, stylolites				
11½' ls, light grey, med-co. xln, hard, dense, no visible porosity, no stain, no odor no fluor w/streaks of pale gun limey sh, pyritic, stylolites				
12' dolomite, light grey, vertical fractures, gran to inter-gran porosity, no stain, no fluor, no odor				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

even stain, feels wet, no fluor.

11-18: Core #5 5445-5505, Rec 60'

11' ls, light gray, xln, dense, no visible porosity, wet, very s/gas odor, very s/yellow fluor.

6' ls med. gray, very fn xln, hard, dense, v. argill, no porosity, no show or fluor

3' sh black, limey

13' ls med gray, fn-med xln, no porosity no shows or fluor, occasional vertical fractures

5' ls, med. gray, med. xln, fn pinpoint por bleeding oil & gas, uneven stain, sulfur odor, s/fluor.

4' ls, lt gray, med. xln, no visible porosity, no odor, stain, or fluor.

14' dolomite, med. gray, sucrosic, some interxln porosity, strong sulfur odor, wet, fr. fluor.

2½' ls, dark gray, fn xln, foss., ho, dense & no visible porosity, no show

1½' sh black, limey

Core #6 6075-6085 Rec 10'

10' ls, white to light gray, fn xln, trace inter xln porosity, streaks dolomite, sll pinpoint porosity, no show, nodules smokey to black chert, streaks rotter red shale, occasional vertical fractures

Core #7 6085-6093 Rec 8'

8' ls, light gray, fn xln, dolomitic streaks, chert nodules, vertical fractures, NS

Core #8 6093-6144 Rec 51'

[illegible]

5' ls white, light gray, fn xln, hard dense, NF, NF w/sed sh streaks and black chart nodules

10' ls, light gray, fn-co, xln, hard, dense, s/vug porosity, vertical fractures, no stain, trace gas odor as fresh break, v/pale yellow fluor.

Apache, Arizona

Operator: The Superior Oil Company No. 14316

Well: Navajo "H"

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660E 810 W Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ○

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

5' dolomite, as above, no porosity, no show, interbedded w/grey & green sh
7' sh, light green, dolomite
13' dolomite, grey-brown, fine-gran, very dense, very hard, pyritic w/interbedded grey shale, 6" show dead stain on v.f. from 6558-59, steeply dipping
11' sh, black, dolomitic w/nodules of grey dolomite, very hard, very dense, no show

12-11: Core #12 6576-6603. Rec 32'
4' dolomite, light grey, fn xln, hard, frac, por, sl. shly, good gas odor, condensate stain along frac., no visible oil stain, good fluor along frac.
28' dolomite, light grey, fn-co, xln, excellent vuggy por, much dead oil stain, good gas odor, even-pale yellow fluor, fractured, some interbedded gypsum, a little live brown stain, trace disseminated sand

12-13: Core #13 6608-6645. Rec 37'
13' dolomite, light grey-tan, excellent vugular porosity, good gas odor, much oil, bl. stain, good fluor (spotty) cut to wtr
7' dolomite, light grey, a few vugs, tight, shaly, scattered dead stain, spotty light fluor, fractured, gypsum
13' dolomite, light grey, fn xln, very hard, dense, NS, NF, dolo- light grey, vertical frac, hd, dense, NS, NF, sh red & green, dolomitic
DST #2 5923-6204, op 2 hrs. Fair blow of air immediately, decreasing to weak blow of air by end of test. Closed tool for 1hr FSIP. Rec 185' drilling mud and 3035' salt wtr, ISIP 2730#, FP 550-1900#, FSIP 2090#, HP 2990#.

12-5: Core #10 6456-6516
10' dolomite, med grey, fine-gran, some pinpoint porosity, dead oil. stain & live brown stain, spotty, light, wet, bldg gas & oil, good odor, good fluor & cut
7' dolomite, light grey, fine-gran, trace free por. v. sdy, some of sd glauc, NS, NO, NF.
7' sh, red, hard, dolo, many fracs
21' dolomite, resinous, red, v.f., suc., very hard, dense, sdy, shaley, specks of glauc, NS, NO, NF, frac.
2' dolomite, light grey, f. suc., light st. sdy, conglomeratic, NS, NO, NF, NF
7' sh, red, dolo, frac
6' dolomite, mottled, grey-green pk, v.f. suc light, sil, sdy, shly, NS, NO, NF.
Core #11 6516-6576. Rec 60'
12' dolomite, red-brown, settled, f.suc, very hard, dense, sil, sdy, sil, shly, no per, no show, no fluor
3' dolomite, brown, light grey, ff suc., dense, hard, v.sl. sdy, w/streaks of grn sd, shly, NS
8½' dolomite, brown, light grey, v.g.suc., dense, hard, NS
½' dolomite, white, f, xln, irregular vugular porosity w/dead oil, bldg stain, fair odor.

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

APACHE, ARIZONA

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660S 810W Area

Csg. Size	Depth	Cement

On File

S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. o

Por. Hor. *

	Geological Tops	Scout	Samp.	E. Log	S-Sec
	F7510 MCF on 15/64" choke for 1¼ hrs.				
	Rec 1.67 BC				
	F7050 MCF, 18/64" choke for 3/4 hr.				
	Rec .83 BC, 72.4 deg grav. Est open				
	flow 1250 MCFPD.				
	Removed bridge plug & ran tbg to 5076.				
	Swabbed 72.4 BSW in 3 hrs.				
	Well KO & flowed 120.6 BLSW & AW in 4 hrs.				
	37/64" choke, TP 1080#, CP 700#.				
	Released rig 1-19-59.				
1-21-59	F3540 MCFPD, 20/64" choke, TP 1050#,				
	CP 1500# in 2 hrs.				
	F5864 MCFPD, 28/64" choke, TP 1245#,				
	CP 1365#, 1 hr 14 mins.				
	Open flow rate- 12,500 MCFPD.				
	Shut in 1-20-59				
2-18-59	MCF on 2-16-59, after 142 hr SI, 2084				
	lbs at plus 61.				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

above size of pinhead scattered throughout
dark green iron stains scattered throughout
One horizontal fracture at about 38 filled
w/white calcite.
6' same as above only darker reddish-brown
fewer glauconite inclusions, can distinguish
a few dark red quartz grains, numerous small
fracs filled w/calcite.
Core # 20 6750-6776, Rec 23'
23' quartzite, reddish-brown, few scattered
glauconite inclusions, vertical fracs 50-63,
67-73, many old fracs both vertical &
horizontal filled w/light red silic, cement,
sil, calc., not too good effervescence and
some fracs w/white calcite
Core #21 6776-6786. Rec 10'
10' quartzite, reddish-brown, few
scattered glauconite inclusions, vertical
fracs 50-63, 67-73, many old fracs both
vertical and horizontal filled w/light red
silic, cement, sil. calc., not too good
effervescence and some fracs w/white calcite.
12-23: Logging
1-14-59 Boiling mud out of csg.
1-16-59 Perf @ 5063-71 w/4 HPF
Acidized w/250 gals break down acid &
1500 gals regular acid.
1-19-59 F7160 MCFPD, 20/64" choke in 1 hr, TP
1700/pkr. Rec 1.25 BC. 65 deg. grav.
F7744 MCF for 1½ hrs. TP 1740/pkr.
Rec 4.2 BC in 2 hrs
Est open flow 8000 MCF.
Killed well
Perf 4999-5032, 5035-40 w/4 HPF
Set bridge plug at 5050
Acidized w/500 gals break down acid.
Acidized w/8000 gals retarded acid &
400 gals fix-a-frac.
Flowed LSW & AW, to clean up.

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660FEL 810 FWL Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud
Comp/Abd
T.D.
Elev. G: KB
I. P.

Por. Hor. ●
Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

12-18: Core #17 6691-6700. Rec 9'
9' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout, black sh is filling few of vertical fractures and remainder are filled by silic, cement. No show.

12-19: Core #18 6700-6724. Rec 24'
24' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout, black sh is filling few of vertical fractures and remainder are filled by silic, cement and w/sli, granular appearance resulting from color contrast between cement and what were once sd grains. Still remaining quartzite. No show.

12-20: Core #19 6724-6750. Rec 26'
20' quartzite, dark red-brown, aphanitic, very hard & dense, numerous vertical fractures disseminated throughout intobbaly, sm blk glauconite inclusions tck tight w/interbedded green gyp, waxy shale, no show, no odor, pyritic along fracs
#2 4' qtzite, red, v.f. gr., dolomitic, v.f., no show, no oil, no fluor
DST #3 6578-6645, op 2 hrs, FBOA, Immediately decreasing to very weak blow of air by end of test. Closed tool for 1 hr FSIP. Rec 90' very slightly gas cut mud & 4735' salt wtr. ISIP 3000#, FP 0-2150#, FSIP 2250#, HP 3200#.

12-14: DST #4 6576-94 (SP) op 2 hrs, weak blow of air throughout test. Closed tool for 1 hr FSIP. Rec 1330' salt wtr. ISIP 2250#, BHFP 0-500#, FSIP 2250#, HP 3200#
Core #16 6645-6647
Probably red quartzite
DST #5 6645-6666 (SP) Ran formation tester. Tool failed to open.
DST #6 6645-6666 (SP), op 2 hrs. Very weak blow of air for 30 mins & dead balance of test. Closed tool for 1 hr BSIP FSIP. Rec 20' drlg mud. ISIP 0#, BHFP 0-0#, FSIP 0#, HP 3250#.

12-15: Core #15 6647-6681. Rec 34'
34' quartzite, red-brown, f.f. gr., conchoidal frac., many vertical fractures, green-glauc., dolomite and anhydrite inclusions, very hard & tight, no show, no odor, no fluor, trace red stain.
Core #16 6681-6691. Rec 10'
10' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout blacksh is filling few of vert fractures and remainder are filled by silic, cement, NS

Crest Printing

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "M" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FSL 810FWL Area Wildcat

Csg. Size	Depth	Cement
10 3/4	1045	500sx
7	5697	600sx
	(11-2-57)	

On File
S.L.
E.L.
W.L.

Spud 10-19-57

Comp/Abd

T.D. 6787 PB 5644

Elev. 5091 G 5105DF KB

I. P. Calc. Open Flow Potential 12,5000 MCFPD SHUT IN

Por. Hor. o

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
Dechelly			2363	
Organ Rock			2695	
Hermosa			4162	
Upper Boundary-Butte			4879	
Desert Creek Tongue			5041	
Lower Boundary Butte			5048	
Chimney Rock			5172	
Hogback			5256	
1st Barker			5340	
2nd Barker			5367	
3rd Barker			5589	
Molas			5781	
Weathered Leadville			5854	
Unweathered Leadville			5900	
Madison			6122	
Elbert			6227	
Ouach			6555	
Quartzite (PRE-Cambrian)			6640	

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

11-7-57: Core #1 4995-5055. Rec 60'

3½' ls, medium gray fine med. xlyn dense, sparsely fossiliferous (bracho), no show, odor or stain

5' ls, med gray, fn xlyn, excellent pinpoint to vuggy porosity, good spotty stain, excellent cut & odor. In spots bleeding oil & gas. Oil is clear in ~~[illegible]~~ color.

21' ls, med gray-dark gray, fn xlyn, sll. argill, excellent vuggy porosity, good spotty stain, good odor, excellent yellowish-white fluor, excellent cut.

1' ls, medium gray, fn xlyn, sll argill. few small scattered pinpoints, no stain on outside of core, but light tan streaks on fresh fractures, oil stain-good streaked fluor, almost solid, good odor, good cut. probably mostly inter-xlyn porosity.

3½' ls, med, gray, fn xlyn, argill. fossil (brachs) for scattered pinpoints & small vugs, spotty-uneven stain, good odor, excellent yellow white fluor, almost entirely, good cut. Some light tan streaked stains as as above (oil stains?), probably inter xln porosity

2' dolomite, tan, argill, fn xlyn, no visible porosity, uneven stain, spotty, yellow-white uneven fluor, good odor, excellent cut

3½' ls, med gray, fn xln, dense, sll argill, ~~[illegible]~~ no odor, stain or show. Few scattered brech fossile, several styolitic partings filled w/ black shale.

2½' dolomite, med. gray, argill, few scattered small pinpoints, sucrosic, few small anhydrite inclusionsm spotty stain, good odor, spotty to dense yellow-white fluor, fair-good cu .

4' dolomite, light gray, fn xlyn, dense, gray ls inclusions w/bback sh cushion, no show, odor or fluor.

Permit 46

APACHE, ARIZONA

Operator: The Superior Oil Company

Well: Navajo "M" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FSL 810 FWL Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. o

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
6½' sh, black, very calc, no show or odor				
3' ls, dark gray, fn xln, dense, argill, no show or odor				
2' ls, med, gray, fn xln dnse, argill, few small scattered pinpoints, uneven stain, bleeding oil and gas, good yellow-white fluor, good odor and good cut				
2½' ls, med, gray, fn xln, dense, argill, no show				
DST #1 [illegible] hrs, gas to surface in 2½ minutes, [illegible] gas rate 9,000 MCFGPD. Well [illegible] pressure 240#-270#. Shut in for 6[illegible] final shut in pressure. Rec [illegible] mcfgpd. ISIP 1300#, FSIP [illegible], HP 3[illegible]00#.				
11-10-57: Core #2 5055-5115, Rec 40'				
5½' ls, med-dark gray, fn xlyn, dense, sll argill, no visible porosity, hairline frac (horizontal) from 60-6[illegible], also several sh partings, No show or fluor.				
[illegible]' ls, light gray, fn xln, dense, very sll argill, pinpoint to visible small vuggy porosity, vugs can be seen easily with naked eye, bleeding [illegible] oil & water, good odor, good yellow[illegible] fluor, spotty to uneven stain, [illegible] odor				
[illegible]' ls, light gray, fn [illegible] argill				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660 FSL 810 FWL Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ○

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

23' ls, very dark gray, grading to black at bottom of interval, fn xln, dense, very argill and very carbonaceous, no visible porosity, no odor or fluor, Sh parting 88-90, 93-93, 96-97.

4' ls, as above but w/hairline fracs 5112-15, w/wet stain, but no fluor, odor or show, stain along fracs.

11-14-57 Core #3 5325-5385, Rec 60'

6' ls, med gray, fn-crypto xln, dense, sil, argill, no/~~visible~~ show or odor, stylolitic parting at 30.

6' ls, med-dark gray, fn-crypto xln, sil argill, no visible porosity, stylolitic parting at 30½, anhydrite and calc inclusion at 37, no show or fluor.

1½ ls, dolomitic, dark gray, fn xln, dense, no visible porosity, no show or fluor

½' shale, black, sil calc, very carbonaceous no shows

8' ls, dark gray-black, carbonaceous, fn-med xln, gradational towards bottom of interval, no visible porosity, sparsely fossiliferous, small brachs, shale parting at 45.

21" ls, sil dolo, dark gray, med xln, sucrosic, sil argill, no visible porosity,

APACHE, ARIZONA

Operator: The Superior Oil Co.

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660S 810 W Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ○

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

Fracs 9-10

8' ls, dolo, light gray, fn-xln, dense sil argill, no show or odor, 1/2" shale parting at 20.

7' ls, med. gray, fn-cse xln, argill, bleeding salt wtr w/sulphur taste at 22½-24 Spotty stain, looks wet, pseudo-oolitic, spotty yellowish white fluor, faint odor, very poor cut, rest of interval ls light gray ls, cse xln, few widely scattered small vugs, few pinpoints of fluor.

4' ls, dolomitic, light gray, fn xln, dense, argill, no visible porosity, spotty dull olive fluor, no cut, no show

4' dolomite, dark gray, fn xln, dense, no visible porosity, small shale or carbonaceous inclusions, no show, odor or fluor, black sh 33½-34

7½' ls, dark gray, fn xln, dense, has a fragmental spotty appearance but no difference in core, very argill, no show or odor, many hairline fracs and thin shale parting 38-42. Stain on fracs, no odor or fluor.

2½' ls, light gray, fn xln, argill, fair-good pinpoint to vuggy porosity, has an

no show or odor, shale at 61½-62

10' ls, dark gray, fn xln, dense, argill, no visible porosity, no show or odor, hairline frac at 75.

7' dolomite, sil limey, dark gray-black, fn xln, argill, no visible porosity, no show or odor

11-16: Core #4 5385-5445, Rec 60'

3½' ls, dark, med. gray, fn-xln, dense, sil argill, no visible porosity, no show or odor, v. frac 88½ - 89

2' ls, med. gray, fn-xln, sil argill, scattered pinpoint to small vugs, permeability not too good, spotty stain, sil bleeding oil & gas, good odor, spotty yellowish-white (almost white) fluor, fair yellowish white cut

1½' ls, light gray, med-xln, sil argill, dense, has a fine phanerite xln texture, no show or odor

5' ls, med. gray, fn xln, dense, sil argill, small scattered vugs and P.P. w/calc xlns in and around, bleeding oil and gas, spotty stain, fair-good odor, fair-streaked gold-yellowish white fluor, poor-fair cut golden

3' ls, dolo, med. gray, fn xln, dense, argill, no visible porosity, no show or odor, anhydrite inclusions

2' dolomite, limey, dark gray, fn-xln, dense, argill, no visible porosity, no show or odor

1½' same as above only med-dark gray, sil argill, has anhydritic inclusion

2½' ls, dark gray, fn xln, dense, argill, no visible porosity, no show or odor, hairline v. frac at 05.

5' ls, med-dark gray, fn-xln, dense, argill, no visible porosity, no show or odor.

Large dolo inclusion at 90. Hairline

even stain, feels wet, no fluor.

11-18: Core #5 5445-5505. Rec 60'
11' ls, light gray, xln, dense, no visible porosity, wet, very s/gas odor, very s/yellow fluor.
6' ls, med. gray, very fn xln, hard, dense, v. argill, no porosity, no show or fluor
3' sh, black, limey
13' ls, med gray, fn-med xln, no porosity no shows or fluor, occasional vertical fractures
5' ls, med gray, med xln, fn pinpoint por, bleeding oil & gas, uneven stain, sulfur odor, s/fluor.
4' ls, lt gray, med xln, as visible porosity, no odor, stain, or fluor.
14' dolomite, med. gray, sucrosic, some intercln porosity, strong sulfur odor, wet, fr fluor.
2½' ls, dark gray, fn xln, foss., ho, dense & no visible porosity, no show!
1½' sh, black, limey
Core #6 6075-6085 Rec 10'
10' ls, white to light gray, fn xln, trace inter xln porosity, streaks dolomite, sll pinpoint porosity, no show. Nodules smokey to black chert, streaks rotter red shale, occasional vertical fractures
Core #7 6085-6093 Rec 8'
8' ls, light grey, fn xln, dolomitic streaks, chert nodules, vertical fractures, NS
Core #8 6093-6144 Rec 51'
[illegible]
5' ls white, light grey, fn xln, hard dense, NF, NF w/sod sh streaks and black chert nodules
10' ls, light gray, fn-co, xln, hard, dense, s/vug porosity, vertical fractures, no stain, trace gas odor as fresh break, v/pale yellow fluor.

Apache, Arizona
Operator: The Superior Oil Company
Well: Navajo "H" No. 14-16
Loc: Sec. 16 Twp. 41N Rge. 30E
Coord. 660' FSL 810 FWL Area

Csg. Size	Depth	Cement

On File
S.L.
E.L.
W.L.

Spud
Comp/Abd
T.D.
Elev. G KB
I. P.

Por. Hor. o
Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
11' ls, light grey, fn xln, hard, dense trace pinpoint porosity, stylolites, no stain, no fluor, no odor				
2' dolomite, dark grey, fn xln, good vugular porosity, even golden fluor (cut) light brown stain, s/gas odor				
4' ls, light grey, fn xln, no visible porosity, extremely light spotted stain, no fluor.				
22½' dolomite, dark grey, fair-excellent [illegible] vugular porosity, s/gas odor, light stain, good golden fluor, frac, shaly in parts				
12-2: Core #9 6144-6204 Rec 60'				
11½' dolomite, light grey, fn-gran, excellent vuggy porosity, no gas odor, trace stain at top, no stain, rest, wet				
11' dolomite, light grey, vertical fractures, s/vug porosity, rest dense, NS, NF, s/sulfur odor, stylolites				
11½' ls, light grey, med-co. xln, hard, dense, no visible porosity, no stain, no odor no fluor w/streaks of pale grn limey sh, pyritic, stylolites				
12' dolomite, light grey, vertical fractures, grain to inter-gran porosity, no stain, no fluor, no odor				

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

14' interbedded ls, dolomite & sh, highly fractured, ls-white, very co.xln, hard, dense, NS, NF, dolo- light grey, vertical frac, hd, dense, NS, NF, sh red & green, dolomitic
DST #2 5923-6204, op 2 hrs. Fair blow of air immediately, decreasing to weak blow of air by end of test. Closed tool for 1hr FSIP. Rec 185' drilling mud and 3035' salt wtr. ISIP 2730#, FP 550-1900#, FSIP 2090#, HP 2990#.

12-5: Core #10 6456-6516
10' dolomite, med grey, fine-gran, some pinpoint porosity, dead oil. stain & live brown stain, spotty, light, wet, bldg gas & oil, good odor, good fluor & cut
7' dolomite, light grey, fine-gran, trace free por. v, sdy, some of sd glauc, NS, NO, NF.
7' sh, red, hard, dolo, many fracs
21' dolomite, resinous, red, v.f., suc., very hard, dense, sdy, shaley, specks of glauc, NS, NO, NF, frac.
2' dolomite, light grey, f. suc., light st. sdy, conglomeratic, NS, NO, NF NF
7' sh, red, dolo, frac
6' dolomite, mottled, grey-green pk, v.f. suc light, sll, sdy, shly, NS, NO, NF.
Core #11 6516-6576. Rec 60'
12' dolomite, red-brown, settled, f.suc, very hard, dense, sll, sdy, sll, shly, no per, no show, no fluor
3' dolomite, brown, light grey, ff suc., dense, hard, v.sl. sdy, w/streaks of grn sd, shly, NS
8½' dolomite, brown, light grey, v.g.suc., dense, hard, NS
½' dolomite, white, f, xln, irregular vugular porosity w/dead oil, bldg stain, fair odor.

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660E 810 W Area

Csg. Size	Depth	Cement

On File: S.L. E.L. W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ○

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

5' dolomite, as above, no porosity, no show, interbedded w/gray & green sh

7' sh, light green, dolomite

13' dolomite, gray-brown, fine-gran, very dense, very hard, pyritic w/interbedded gray shale, 6" show dead stain on v.f. from 6558-59, steeply dipping

11' sh, black, dolomitic w/nodules of gray dolomite, very hard, very dense, no show

12-11: Core #12 6576-6608. Rec 32'

4' dolomite, light grey, fn xln, hard, frac, por, sl. shly, good gas odor, condensate stain along frac., no visible oil stain, good fluor along frac.

28' dolomite, light grey, fn-co, xln, excellent vuggy por, much dead gil. stain, good gas odor, even-pak yellow fluor, fractured, some interbedded gypsum, a little live brown stain, trace disseminated sand

12-13: Core #13 6608-6645. Rec 37'

13' dolomite, light grey-tan, excellent vugular porosity, good gas odor, much gil. bl. stain, good fluor (spotty) cennate wtr

7' dolomite, light grey, a few vugs, tight, shaly, scattered dead stain, spotty light fluor, fractured, gypsum

13' dolomite, light grey, fn xln, very hard, tight w/interbedded green gyp, waxy shale, no show, no odor, pyritic along fracs

#4 4' qtzite, red, v.f. gr., dolomitic, v.f., no show, no oil, no fluor

DST #3 6578-6645, op 2 hrs, PBOA, immediately decreasing to very weak blow of air by end of test. Closed tool for 1 hr FSIP. Rec 90' very slightly gas cut mud & 4735' salt wtr. ISIP 3000#, FP 0-2150#, FSIP 2250#, HP 3200#.

12-14: DST #4 6576-94 (SP) op 2 hrs, weak blow of air throughout test. Closed tool for 1 hr FSIP. Rec 1330' salt wtr. ISIP 2250#, BHFP 0-500#, FSIP 2250#, HP 3200#

Core #14 6645-6647

Probably red quartzite

DST #5 6645-6666 (SP) Ran formation tester. Tool failed to open.

DST #6 6645-6666 (SE), op 2 hrs. Very weak blow of air for 30 mins & dead balance of test. Closed tool for 1 hr FSIP. Rec 28' drlg mud. ISIP 0#, BHFP 0-0#, FSIP 0#, HP 3250#.

12-15: Core # 15 6647-6681. Rec 34'

34' quartzite, red-brown, f.f. gr., conchoidal fract., many vertical fractures, green-glauc., dolomite and anhydrite inclusions, very hard & tight, no show, no odor, no fluor, trace red stain.

Core # 16 6681-6691'. Rec 10'

10' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout blacksh is filling few of vert fractures and remainder are filled by silic, cement, NS

Apache, Arizona

Operator: The Superior Oil Company

Well: Navajo "H" No. 14-16

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660FEL 810 FWL Area

Csg. Size	Depth	Cement

On File: S.L. E.L. W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. ○

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea

12-18: Core #17 6691-6700. Rec 9'

9' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout, black sh is filling few of vertical fractures and remainder are filled by silic, cement. No show.

12-19: Core #18 6700-6724. Rec 24'

24' quartzite, dark red-brown, fn xln, breaking w/conchoidal fracture, very hard & dense, abundant vertical fracturing present, few glauconite inclusions disseminated throughout, black sh is filling few of vertical fractures and remainder are filled by silic, cement and w/sli, granular appearance resulting from color contrast between cement and what were once sd grains. Still remaining quartzite. No show.

12-20: Core #19 6724-6750. Rec 26'

26' quartzite, dark red-brown, aphanitic, very hard & dense, numerous vertical fractures disseminated throughout intertwined, small glauconite inclusions

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

Crest Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

APACHE, ARIZONA

Operator: The Superior Oil Company No. 14-16

Well: Navajo "H"

Loc: Sec. 16 Twp. 41N Rge. 30E

Coord. 660S 810W Area

Csg. Size	Depth	Cement

On File

S.L.
E.L.
W.L.

Spud

Comp/Abd

T.D.

Elev. G KB

I. P.

Por. Hor. o

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sec

F/510 MCF on 15/64" choke for 1½ hrs.
Rec 1.67 BC
F/1050 MCF, 18/64" choke for 3/4 hr.
Rec .83 BC, 72.4 deg grav. Est open
flow 1250 MCFPD.
Removed bridge plug & ran tbg to 5076.
Swabbed 72.4 BSW in 3 hrs.
Well KO & flowed 120.6 BLSW & AW in 4 hrs.
976" choke, TP 1080#, CP 700#.
Released rig 1-19-59.

1-21-59 F/3540 MCFPD, 20/64" choke, TP 1800#, CP 1500# in 2 hrs.
F/5864 MCFPD, 20/64" choke, TP 1245#, CP 1365#, 1 hr 14 mins.
Open flow rate- 12,500 MCFPD.
Shut in 1-20-59

2-18-59 MCF on 2-16-59, after 142 hr SI, 2084 lbs at plus 61.

Great Printing 5M 6/59-8136 For D.S.T., Prod. Test, & cored interval-See Back

above size of pinhead scattered throughout dark green iron stains scattered throughout One horizonbal fracture at about 38 filled w/white calcite.
6' same as above only darker reddish-brown fewer glauconite inclusions, can distinguish a few dark red quartz grains, numerous small fracs filled w/calcite.
Core # 20 6750-6776, Rec 23'
23' quartzite, reddish-brown, few scattered glauconite inclusions, vertical fracs 50-63, 67-73, many old fracs both vertical & horizontal filled w/light red silic, cement, sil, calc., not too good effervescence and some fracs w/white calcite
Core #21 6776-6786. Rec 10'
10' quartzite, reddish-brown, few scattered glauconite inclusions, vertical fracs 50-63, 67-73, many old fracs both vertical and horizontal filled w/light red silic, cement, sil. calc., not too good effervescence and some fracs w/white calcite.

12-23: Logging
1-14-59 Rolling mud out of csg.
1-16-59 Perf (5063-7) w/4 HPF
Acidized w/250 gals break down acid & 1500 gals regular acid.

1-19-59 F/1100 MCFPD, 20/64" choke in 1 hr, TP 1700/pkr. Rec 1.25 BC. 65 deg. grav.
F/754 MCF Per 1½ hrs. TP 1740/pkr.
Rec 4.2 BC in 2 hrs
Est open flow 8000 MCF.
Killed well
Perf 4999-5032, 5035-40 w/4 HPF
Set bridge plug at 5050
Acidized w/500 gals break down acid.
Acidized w/8000 gals retarded acid & 400 gals flx-a-frac.
Flowed LSW & AW, to clean up.

Form 9-331 b
(April 1952)

X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2.
Approval expires 12-31-55.

Indian Agency Window Rock

Allottee Navajo

Lease No. 14-20-603-367

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	XX	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 12, 19 57

Navajo Well No. H-2 is located 660 ft. from {N/S} line and 810 ft. from {E/W} line of sec. 16

SW/4 SW/4 Sec 16 (¼ Sec. and Sec. No.) 41N (Twp.) 30E (Range) GS & R.M. (Meridian)

Wildcat (Field) Apache (County or Subdivision) Arizona (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill well to Second Barker at about 5700'. Will set approximately 800' of 10 3/4" surface casing w/ cement circulated to surface. Will set 7" casing on top of or through any commercial production encountered. All water strata will be confined to their respective strata and will be adequately protected.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Superior Oil Company

Address P. O. Box 276,
Cortez, Colorado

By George E. Nugent

Title

U. S. GOVERNMENT PRINTING OFFICE 16—84376-7

13553

RECEIVED
OCT 16 1957
STATE LAND
DEPT.

STATE LAND DEPARTMENT
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit must be granted before drilling begins

State Land Commissioner: Phoenix Ariz. October 16 19 57

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. H-2 Sec. 16, Twp. 41N, Rge. 30 E, GS &R.MB.&M., Wildcat Field, Apache County.

Legal description of lease All of Sections 9, 10, 16, & 15 Township 41N, Range 30E, Apache County, Arizona (attach map or plat to scale)

Location of Well: 660' FSL & 810' FWL Section 16, T 41N, R 30E (Give exact footage from section corners or other legal subdivisions or streets)

Proposed drilling depth 5700 feet. Acres in drilling unit 40 acres.

Has surety bond been filed? Yes. Is location a regular or exception to spacing rule? regular.

Elevation of ground above sea level 5112 feet.

All depth measurements taken from top of Rotary Kelly Bushing (Derrick, floor, Rotary Table or Kelly Bushing) which is 15' feet above the ground.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight	Grade & Type		Top	Bottom	Cementing Depths
10 3/4"	32.75	H-40	Smls	Surface	800'	Circulated to Surface
7"	20 & 23#	J-55	Smls	Surface	5700'	5700' to 5500'

Intended Zone or Zones of completion:

Name	Perforated Interval
Hermosa, Paradox, Molas, Second Barker	

AFFIDAVIT:

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

The Superior Oil Co.
(Applicant)

By Geo. E Nugent

Application approved this 31 day of October 1957

Obed M Larsen
State Land Commissioner

Permit No. #46

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

RECEIVED
OCT 18 1957
STATE LAND
DEPT.

Company THE SUPERIOR OIL COMPANY

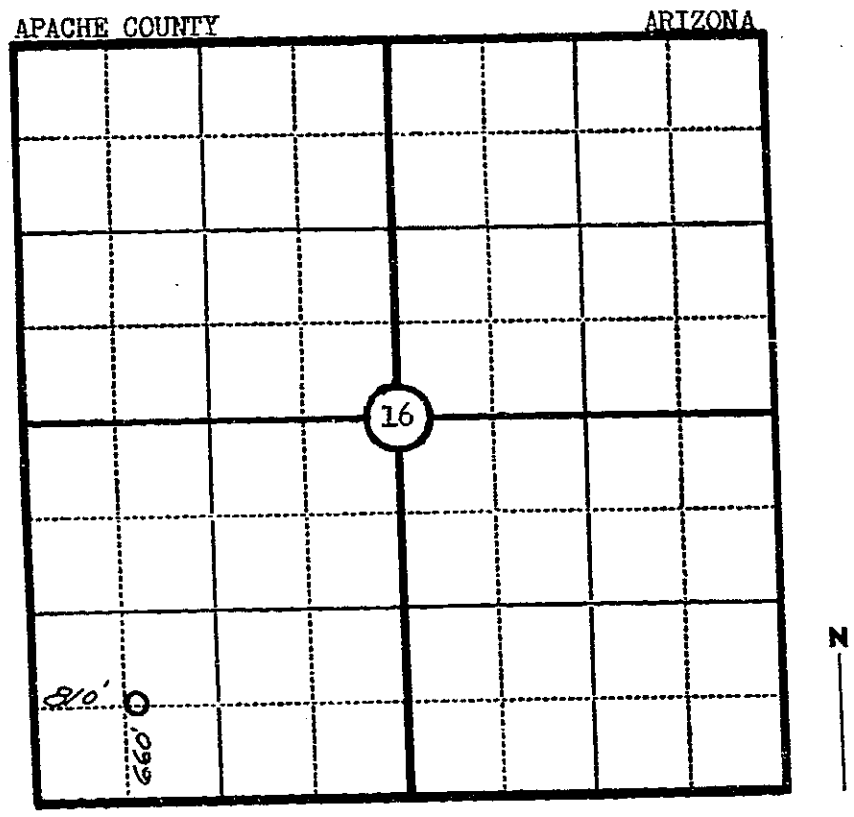
Lease NAVAJO H Well No. 2

Sec. 16, T. 41 N., R. 30 E., G & S.R.M.

Location 660' FROM THE SOUTH LINE AND 810' FROM THE WEST LINE.

Elevation 5112.0 UNGRADED GROUND.

TBM: 150' [illegible] of Location: Elev. 5106.58



Scale—4 inches equal 1 mile.

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.

Seal:

Registered Land Surveyor.
James P. Leese
Ariz. Reg. No. 1849

Surveyed 10 October, 1957

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

REGISTERED LAND SURVEYOR
JAMES P. LEESE
ARIZONA

46

RECEIVED
OCT 18 1967
STATE LAND
DEPT.

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OCT 18 1967
STATE LAND
DEPT.

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

July 3, 1995

file 46

Ms. Elizabeth Coffman
Dwight's EnergyData, Inc.
4350 Will Rogers Parkway, Suite 101
Oklahoma City, OK 73108

Dear Ms. Coffman:

I have enclosed the information in our well-file numbers 10-18, 10-19, 12-2, 13, 46, 347, and 548 in response to your recent letter. The information in these early well-files is very meager, including only a cover sheet as in 10-18 and 10-19. The information in 13, 46, 347, and 548 is a little better, and was made from the best available data (such as onion-skin paper, etc.). As a result, give me a call if some of the information is difficult to read and I will try to help you from the original material.

Let me know if I may be of further assistance.

Sincerely,

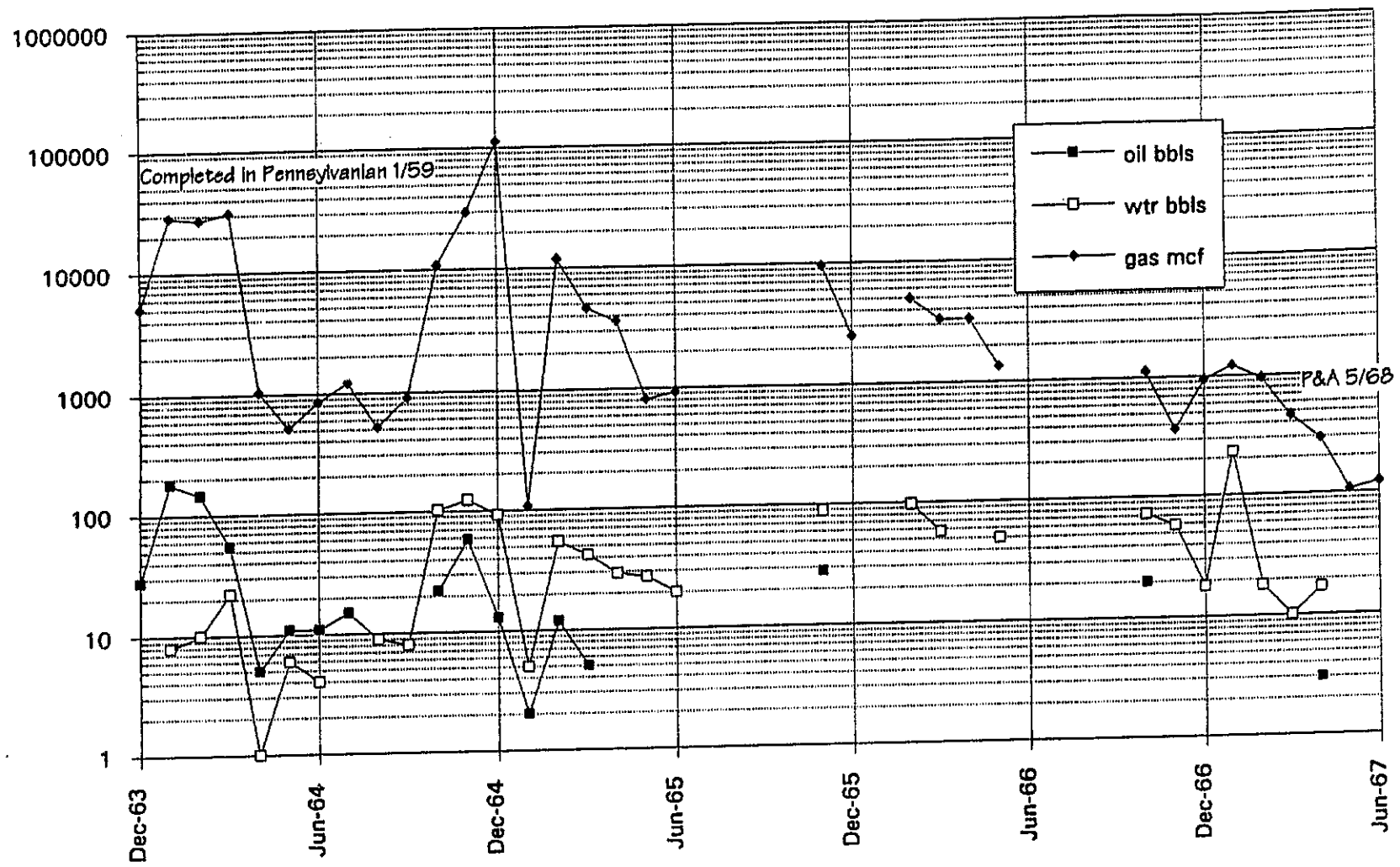
Steve Rauzi

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

MONTHLY PRODUCTION AT SUPERIOR 2 NAVAJO-H (46), ARIZONA: DEC 1963 - JUN 1967

sw sw 16-41n-30e, Twin Falls Creek Field, Apache County



MONTHLY PRODUCTION AT SUPERIOR 2 NAVAJO-H (46), ARIZONA
sw sw 16-41n-30e, Twin Falls Creek Field, Apache County
(per SLR audit of monthly producer's reports 12/63 – 6/67)

DATE	oil bbls	wtr bbls	gas mcf	oil ytd bbls	wtr ytd bbl	mcf ytd	oil cum bbl	wtr cum bb	gas cum m	DATE
Dec-63	28		5118	28	0	5118	28		5118	Dec-63
Jan-64	180	8	28872	180	8	28872	208	8	33990	Jan-64
Feb-64	145	10	27450	325	18	56322	353	18	61440	Feb-64
Mar-64	55	22	31273	380	40	87595	408	40	92713	Mar-64
Apr-64	5	1	1037	385	41	88632	413	41	93750	Apr-64
May-64	11	6	521	396	47	89153	424	47	94271	May-64
Jun-64	11	4	850	407	51	90003	435	51	95121	Jun-64
Jul-64	15		1212	422	51	91215	450	51	96333	Jul-64
Aug-64	9	9	521	431	60	91736	459	60	96854	Aug-64
Sep-64		8	902	431	68	92638	459	68	97756	Sep-64
Oct-64	22	102	10794	453	170	103432	481	170	108550	Oct-64
Nov-64	58	123	29714	511	293	133146	539	293	138264	Nov-64
Dec-64	13	92	112243	524	385	245389	552	385	149507	Dec-64
Jan-65	2	5	107	2	5	107	554	390	149614	Jan-65
Feb-65	12	55	11851	14	60	11958	566	445	161465	Feb-65
Mar-65	5	42	4614	19	102	16572	571	487	166079	Mar-65
Apr-65		29	3613	19	131	20185	571	516	169692	Apr-65
May-65		27	814	19	158	20999	571	543	170506	May-65
Jun-65		20	923	19	178	21922	571	563	171429	Jun-65
Jul-65				19	178	21922	571	563	171429	Jul-65
Aug-65				19	178	21922	571	563	171429	Aug-65
Sep-65				19	178	21922	571	563	171429	Sep-65
Oct-65				19	178	21922	571	563	171429	Oct-65
Nov-65	28	89	9523	47	267	31445	599	652	180952	Nov-65
Dec-65			2508	47	267	33953	599	652	183460	Dec-65
Jan-66				0	0	0	599	652	183460	Jan-66
Feb-66		97	4951	0	97	4951	599	749	188411	Feb-66
Mar-66		57	3317	0	154	8268	599	806	191728	Mar-66
Apr-66			3343	0	154	11611	599	806	195071	Apr-66
May-66		50	1323	0	204	12934	599	856	196394	May-66
Jun-66				0	204	12934	599	856	196394	Jun-66
Jul-66				0	204	12934	599	856	196394	Jul-66
Aug-66				0	204	12934	599	856	196394	Aug-66
Sep-66				0	204	12934	599	856	196394	Sep-66
Oct-66	20	73	1121	20	277	14055	619	929	197515	Oct-66
Nov-66		58	367	20	335	14422	619	987	197882	Nov-66
Dec-66		18	937	20	353	15359	619	1005	198819	Dec-66
Jan-67		228	1218	0	228	1218	619	1233	200037	Jan-67
Feb-67		18	948	0	246	2166	619	1251	200985	Feb-67
Mar-67		10	461	0	256	2627	619	1261	201446	Mar-67
Apr-67	3	17	290	3	273	2917	622	1278	201736	Apr-67
May-67			106	3	273	3023	622	1278	201842	May-67
Jun-67			121	3	273	3144	622	1278	201963	Jun-67
Jul-67										Jul-67
Aug-67										Aug-67
Sep-67										Sep-67
Oct-67										Oct-67
Nov-67										Nov-67
Dec-67										Dec-67

OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

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

February 4, 1972

Mr. R. T. Young
W. C. McBride, Inc.
230 Denver Club Building
Denver, Colorado 80202

Dear Mr. Young:

In answer to your request of February 2, 1972, we are furnishing the following information from our files:

ACCUMULATIVE PRODUCTION

	OIL BBLS	GAS MCF	PRESENT STATUS
Superior Oil No. 2 Navajo-H Section 16-T41N-R30E #46	622	210,919 not per reports on file of this office	P&A 5-15-68
El Paso No. 1 Bita Peak Section 19-T41N-R31E #35	12,528 7,620	2,524,140 2,292,443	P&A 3-07-69
Pan American No. 1 Navajo-O Section 23-T41N-R30E #232	78,200	424,546	Producing 31 OIL BBLS/DAY 100 GAS MCF/DAY

We are attaching a summary of yearly production through the year 1969 and also a copy of our Monthly Production Report for December, 1971. If you should need further information, please advise.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

W. C. McBRIDE, INC.
230 Denver Club Building
DENVER, COLORADO 80202

HOME OFFICE
35 NORTH BRENTWOOD BLVD.
ST. LOUIS, MO. 63105

825-2366

February 2, 1972

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

Gentlemen:

We would very much like to obtain cumulative production and current production for three individual wells in Apache County:

Superior Oil No. 2 Navajo-H
Sec. 16-T41N-R30E # 16

Pan American No. 1 Navajo-O
Sec. 23-T41N-R30E 232

El Paso No. 1 Bita Peak
Sec. 19-T41N-R31E 35

Thank you very much.

Very truly yours,

W. C. McBRIDE, INC.

Robert T. Young

R. T. Young

RTY:bv

RECEIVED
FEB 04 1972
O & G CONS. COMM.

Operator THE SUPERIOR OIL COMPANY

Bond Company Fidelity & Deposit Co.ofMd. Amount $25,000

Bond No. 5703773 Date Approved 11-12-63

Permits covered by this bond:

44 ← see this file

~~5~~ 46 S.I.

128 ←

265 A

279 (Not drilled)

281 A

CANCELLED

DATE 10-3-66 Superseded by American Insurance Co.

effective 10-26-66 Bond 5-11-22-63

Operator Superior Oil Company

Bond Company Fidelity & Deposit Co. of Maryland Amount $10,000

Bond No. 74-76-688 Date Approved 6-14-60

Permits covered by this bond:

261

263

128

46

44

279

CANCELLED

DATE 11-22-65

Fidelity and Deposit Company

HOME OFFICE **OF MARYLAND** *BALTIMORE 3* 7266466

The premium charged for this bond is 2.5 cc Dollars per annum.

STATE OF ARIZONA

STATE LAND DEPARTMENT

BOND FOR DRILLING OIL OR GAS WELL

CANCELLED 7-6-60

State of Arizona)
)
County of Maricopa)

KNOW ALL MEN BY THESE PRESENTS:

That we, THE SUPERIOR OIL COMPANY, A CALIFORNIA CORPORATION hereinafter called Principal, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, hereinafter called the Surety, are held and firmly bound unto the State of Arizona in the sum of Twenty-Five Hundred Dollars ($2,500) for the payment of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Whereas the Principal has obtained a permit from the State Land Commissioner to drill a well in search of oil or gas, and whereas said Principal is required by provisions of the Oil and Gas Conservation Act of 1951 to deposit with the said Commissioner a good and sufficient bond:

Now, therefore, the condition of the foregoing obligation is such that if the Principal shall drill, case and plug said well drilled by said [illegible] the escape of oil or gas from one

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES } ss:

On this 11th day of October 19 57, before me, Berness Fuentes, a Notary Public, in and for the said County of Los Angeles, State of California, residing therein, duly commissioned and sworn, personally appeared Gordon Coy known to me to be the Attorney-in-Fact of the Fidelity and Deposit Company of Maryland, the Corporation that executed the within instrument, and acknowledged to me that he subscribed the name of the Fidelity and Deposit Company of Maryland thereto and his own name as Attorney-in-Fact.

Berness Fuentes *Berness Fuentes*
Notary Public in and for the County of Los Angeles, State of California

STATE OF CALIFORNIA,
County of LOS ANGELES } *ss.*

ON THIS 17th *day of* October, *A.D.,* 19 57, *before me,* Catherine G. Toole *a Notary Public in and for said County and State, personally appeared* John T. Isberg, *known to me to be the* Vice *President, and* E. M. Darusmont, *known to me to be the* Assistant *Secretary* of The Superior Oil Company *the Corporation that executed the within Instrument, known to me to be the persons who executed the within Instrument, on behalf of the Corporation herein named, and acknowledged to me that such Corporation executed the within Instrument pursuant to its by-laws or a resolution of its board of directors.*

IN WITNESS WHEREOF, *I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.*

Catherine G. Toole
Notary Public in and for said County and State.
My Commission Expires June 11, 1961

ACKNOWLEDGMENT — CORP. — PRES. & SEC. — WOLCOTTS FORM 226 — 89703

State Land Commissioner

46

G1121—13M, 5-51 130423

Fidelity and Deposit Company

HOME OFFICE **OF MARYLAND** BALTIMORE 3 7266468

The premium charged for this bond is 2.5 per Dollars per annum

STATE OF ARIZONA

STATE LAND DEPARTMENT

BOND FOR DRILLING OIL OR GAS WELL

CANCELLED 7-6-60

State of Arizona)
)
County of Maricopa)

KNOW ALL MEN BY THESE PRESENTS:

That we, THE SUPERIOR OIL COMPANY, A CALIFORNIA CORPORATION hereinafter called Principal, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, hereinafter called the Surety, are held and firmly bound unto the State of Arizona in the sum of Twenty-Five Hundred Dollars ($2,500) for the payment of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Whereas the Principal has obtained a permit from the State Land Commissioner to drill a well in search of oil or gas, and whereas said Principal is required by provisions of the Oil and Gas Conservation Act of 1951 to deposit with the said Commissioner a good and sufficient bond:

Now, therefore, the condition of the foregoing obligation is such that if the Principal shall drill, case and plug said well drilled by said [illegible] prevent the escape of oil or gas from one

STATE OF CALIFORNIA
COUNTY OF LOS ANGELES } ss:

On this 11th day of October 19 57, before me, Berness Fuentes, a Notary Public, in and for the said County of Los Angeles, State of California, residing therein, duly commissioned and sworn, personally appeared Gordon Coy known to me to be the Attorney-in-Fact of the Fidelity and Deposit Company of Maryland, the Corporation that executed the within instrument, and acknowledged to me that he subscribed the name of the Fidelity and Deposit Company of Maryland thereto and his own name as Attorney-in-Fact.

Berness Fuentes

Notary Public in and for the County of Los Angeles, State of California

Los Angeles 146091 My Commission Expires March 5, 1960

E. M. Darusmont, Ass't. Secretary John T. Isberg, Vice President

COUNTERSIGNED BY

Arizona Resident Agent

FIDELITY AND DEPOSIT COMPANY OF MARYLAND

BY

Gordon Coy, Attorney in Fact

Approved this 21st day of October, 1957.

Obed M Larsen
State Land Commissioner

46

G1121—13M, 5-51 130423

Fidelity and Deposit Company

HOME OFFICE **OF MARYLAND** *BALTIMORE 3* 7266468

The premium charged for this bond is 25.00 Dollars per annum.

STATE OF ARIZONA

STATE LAND DEPARTMENT

BOND FOR DRILLING OIL OR GAS WELL

CANCELLED 7-6-60

State of Arizona)
)
County of Maricopa)

KNOW ALL MEN BY THESE PRESENTS:

That we, THE SUPERIOR OIL COMPANY, A CALIFORNIA CORPORATION hereinafter called Principal, and FIDELITY AND DEPOSIT COMPANY OF MARYLAND, hereinafter called the Surety, are held and firmly bound unto the State of Arizona in the sum of Twenty-Five Hundred Dollars ($2,500) for the payment of which the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Whereas the Principal has obtained a permit from the State Land Commissioner to drill a well in search of oil or gas, and whereas said Principal is required by provisions of the Oil and Gas Conservation Act of 1951 to deposit with the said Commissioner a good and sufficient bond:

Now, therefore, the condition of the foregoing obligation is such that if the Principal shall drill, case and plug said well drilled by said Principal in such manner as to prevent the escape of oil or gas from one stratum to another and to prevent the intrusion of water into an oil or gas stratum from a separate stratum, and to prevent the pollution of fresh water supplies by oil, gas or salt water and in such manner as to prevent waste, and shall make such reports to the Commissioner as are required by the Oil and Gas Conservation Act of 1951 by said Principal, and shall file the log and drilling record kept by said Principal within six (6) months from the time of the completion or abandonment of said well drilled for oil or gas and shall plug the same in the manner provided by the rules and regulations adopted by said Commissioner, then this obligation to be null and void, otherwise to be and remain in full force and effect.

Witness our hands and seals this 11th day of October, 1957.

THE SUPERIOR OIL COMPANY

BY John T. Isberg
Principal
John T. Isberg, Vice President

E. M. Darusmont
E. M. Darusmont, Ass't. Secretary

COUNTERSIGNED BY

A. L. Drummond
Arizona Resident Agent

FIDELITY AND DEPOSIT COMPANY OF MARYLAND

BY Gordon Coy
Gordon Coy, Attorney in Fact

Approved this 21st day of October, 1957.

Obed M. Larsen
State Land Commissioner

46

G1121—13M, 5-51 *130423*

Form 23-41 (10-55)

OIL CONSERVATION COMMISSION

~~120 EAST CHACO~~

~~AZTEC, NEW MEXICO~~

1624 West Adams - Phoenix, Arizona

NOTICE OF DISCONNECT:

DATE April 9, 1968

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT A DISCONNECT ON

Superior Oil Company	Navajo H 16 #14
OPERATOR	LEASE

"M"	16-41-30	Paradox
WELL UNIT	S-T-R	POOL

El Paso Natural Gas Company WAS MADE ON March 17, 1968
NAME OF PURCHASER DATE

DUE TO Pending evaluation of remedial methods to increase production.

El Paso Natural Gas Company
PURCHASER

R. M. Bourgeois
REPRESENTATIVE

Chief Dispatcher
TITLE

Midland & Cortez
cc: ~~Oil Conservation Commission - Santa Fe~~
F. N. Woodruff - El Paso
~~W.M. Flood - El Paso~~
~~B. Dr Adams - Farmington~~
Leroy Metcalf & Gas Engineering
File-2

RECEIVED APR 11 1968 O & G STATE CONS. COMM.

#46

March 25, 1968

The Superior Oil Company
P.O. Box G
Cortez, Colorado 81321

Re: Superior H 14-16 Navajo
SW SW 16-41N-30E, Apache County, Arizona
Permit 46

Gentlemen:

Your letter of October 2, 1967 advised that captioned well was uneconomical in its present condition. It has also come to our attention that the lease on which this well was operated has been dropped as of January 8, 1968.

Therefore it is necessary that captioned well be plugged and abandoned in accordance with our rules and regulations.

Enclosed is Form 9, Application to Abandon and Plug, for use in advising us of your intended plugging program. Also enclosed are Form 10, Plugging Record, and Form 4, Well Recompletion Report, to be filed to reflect the accomplishment of your plugging program.

Your earliest cooperation is requested.

Very truly yours,

John Bannister
Executive Secretary
mr
encs

cc: U.S. Geological Survey, Frmington, N.M.

3-27-68 Dave Kingman telephoned.
Well will be plugged, as soon as weather permits. Will furnish all necessary info.

March 11, 1968

The Superior Oil Company
P.O. Box G
Cortez, Colorado

Gentlemen:

According to our records, the data indicated below has not been submitted as called for by our rules and regulations. You are urged to submit this data at once to bring this operation into compliance with the rules and regulations.'

Well	Data
Superior H 14-16 Navajo SW SW 16-41N-30E Permit 46	Application to Plug, Plugging Record.

Your earliest cooperation is requested.

Very truly yours,

John Bannister
Executive Secretary
mr

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO 81321

October 2, 1967

Mr. John Bannister, Executive Secretary
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

RE: Superior Oil Co., #1 Nav. H-14-16
SW SW 16-41N-30E
Apache County, Arizona, Permit #46

Dear Mr. Bannister:

The above captioned well is experiencing an influx of water to the extent that the present plunger lift installation is failing to handle the water. To overcome a 900# line pressure has made the well become uneconomical.

The last two attempts to wait for sufficient pressure build up to bring the plunger off bottom have been unsuccessful.

An investigation of possible compressor installation and the economics thereof has been instigated.

We anticipate the well will be shut in for the month of October.

Since the well is uneconomical in the present condition of high line pressure and after exhausting other possible means of production, the well may have to be abandoned.

Very truly yours,

L. S. Robbins

L. S. Robbins

LSR/njh

cc: W. H. Fraser
File

RECEIVED
OCT 3 1967
STATE O & G CONS. COMM.

46

September 25, 1967

The Superior Oil Company
P.O. Drawer G
Cortez, Colorado 81321

Attention: Mr. W.H. Fraser, District Superintendent

Re: Superior Oil #1 Navajo H14-16
SW SW 16-41N-30E, Apache County, Arizona
Permit 46

Gentlemen:

We note that captioned well has been shut-in during July and August, 1967.

The purpose of this letter is to inquire as to the reasons for the necessity of the shut-in and to elicit information as to your plans for the future operations of this well. We are enclosing copies of Form 25 which you may use for your reply if you so desire.

We also direct your attention to our Rule 120 should it be applicable.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO, 81321

March 20, 1967

Permit 46

Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 W. Adams
Phoenix 7, Arizona

Attention: Mr. John K. Petty

Dear Sir:

Attached are two (2) copies of Form No. 8, titled "Operator's Certificate of Compliance and Authorization to Transport Oil or Gas From Lease".

Upon approval by you, please forward one copy of approved form to the attention of the undersigned.

mailed 3-22-67

Very truly yours,

W H Fraser

W. H. Fraser

WHF/njh
Attach.

RECEIVED MAR 21 1967 STATE O & G CONS. COMM.

46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO, 81321

January 17, 1966

Oil & Gas Commission
State of Arizona
1624 West Adams
Phoenix, Arizona #85007

Attention: Mr. John Bannister

RE: Condensate Disposition
Navajo 'H' Well #14-16
Apache County, Arizona

Gentlemen:

This is in answer to your recent letter dated January 13, 1966, wherein you inquired as to the "disposition of the condensate" from the above mentioned well.

Initial gas deliveries from the well commenced in December 1963, and subsequent to this date condensate was shipped during the month(s) of February 1964, March 1964, and May 1965, which is substantiated by the Commission's 'Monthly Producers Report', Form #18 (currently Form #16) as reported by us each month. All of the shipments were to the McWood Corporation and in accordance with our current agreement, any future shipments will be handled in the same manner, and will be so noted on the Monthly Producer's Report.

Very truly yours,

W. L. Nowlin

W. L. Nowlin

WLN/njh

cc: W. H. Fraser
File

RECEIVED
JAN 18 1966
STATE O & G
CONS. COMM.

#46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G
CORTEZ, COLORADO, 81321

January 17, 1966

Oil & Gas Commission
State of Arizona
1624 West Adams
Phoenix, Arizona #85007

Attention: Mr. John Bannister

RE: Semi-Annual GOR Test
Navajo 'H' Well #14-16
Apache County, Arizona

Gentlemen:

Reference to your letter of January 5, 1966, wherein you mentioned Rule 301 of the Rules and Regulations in regard to the above mentioned well.

Rule 301, as defined in the Rules and Regulations of the Oil & Gas Conservation Commission as adopted on September 22, 1965, pertains only to oil well(s). The above referred to well is a gas well and as such would be exempt from the specific rule.

Currently the above well is shut-in due to its becoming "loaded with water" and remedial work is being contemplated. Condensate production has become practically nil subsequent to May 1965.

Very truly yours,

W. L. Nowlin

W. L. Nowlin

WLN/njh

cc: W. H. Fraser
File

RECEIVED
JAN 18 1966
STATE O & G
CONS. COMM.

#46

January 13, 1966

The Superior Oil Company
P.O. Drawer G
Cortez, Colorado

Attention: Mr. W.H. Frazer

Re: Superior 14-16 Navajo H
SW/4SW/4 16-41-30E, Apache County, Arizona
Our File 46

Gentlemen

In reviewing our records we note that, according to the Certificate of Compliance and Authorization to Transport Oil or Gas from Lease on file with this Commission covering the condensated produced from the captioned well, McWood Corporation is the authorized transporter. However, McWood Corporation is not reporting receipt of this product on their Transporters and Storers Monthly Report.

At your earliest convenience, would you please advise this Commission as to the disposition of the condensate produced from this well.

El Paso Natural Gas Company does report the gas received from this well.

Very truly yours,

John Bannister
Executive Secretary
mr

46

January 5, 1966

The Superior Oil Company
P.O. Drawer G
Cortez, Colorado

Attention: Mr. W.H. Fraser

Re: Superior 14-16 Navajo H
SW/4SW/4 16-41N-30E, Apache County, Arizona
Our File 46

Gentlemen:

We would call your attention to Rule 301 of our Rules and Regulations. You will note this rule calls for a semi-annual gas-oil ration test.

For your convenience we are enclosing a supply of the necessary forms and ask that you complete and return to us at your earliest convenience.

The method currently employed by your company for this test will at this time satisfy this office.

Very truly yours,

John Bannister
Executive Secretary
mr
enc

46

File in Well File

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO

January 30, 1964

State of Arizona
Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona

Attention: Mr. John K. Petty
Acting Executive Secretary

RE: Navajo 'H' #14-16
Section 16-T41N-R30E, Apache County, Arizona

Dear Mr. Petty:

The Superior Oil Company submits for Commissioner's approval the field name for the above reference well as "Twin Falls Creek".

Very truly yours,

W H Fraser

W. H. Fraser

JMB/njh

File

RECEIVED
JAN 31 1964
STATE O & G
CONS. COMM.

46

January 23, 1964

Mr. B. E. West, Chief Clerk
Superior Oil Company
P. O. Drawer C
Cortez, Colorado

RE: P-18 Forms

Dear Mr. West:

Congratulations on your producing well. We are very glad you have it on stream at long last. Also we hope you drill some more producers in Arizona in 1964.

Accompanying this letter find a supply of P-18 forms.

Sincerely,

JOHN K. PETTY
Acting Executive Secretary

JKP/kmg
encl

46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO

January 22, 1964

Oil & Gas Conservation Commission
State of Arizona
1624 W. Adams, Room 202
Phoenix, Arizona

Attention: John K. Petty

Dear Sir:

As you have probably noted from the P-18 form submitted to you earlier, we now have a producing well, Navajo H Lease, in Apache County, Arizona.

We do not have any of the Arizona P-18 forms, and as we will be reporting each month, would you please send us a supply of P-18 forms as soon as possible.

Very truly yours,

THE SUPERIOR OIL COMPANY

B. E. West

B. E. West
Chief Clerk

answered Jan 23

BEW/lr

cc: File

46

January 20, 1964

Mr. J. M. Brittain
The Superior Oil Co.
P. O. Drawer G
Cortez, Colorado

Re: No. 1 Navajo 'H' #14-16
Section 16-T41N-R30E, Apache County, Arizona

Dear Mr. Brittain:

Enclosed find a supply (24) of Form No. G-7 as requested, and congratulations on beginning production on this well.

I note that you have designated your new field as "Twin Falls Creek", and that sounds like a mighty fine name. If you would like it designated as that on our records, please write a note to us requesting same and I will submit it to the Commissioners and I feel sure that they will approve it.

Hoping you drill some more and add some more wells to this field, I am,

Very truly yours,

John K. Petty
Acting Executive Secretary

JKP:mkc

46

December 31, 1963

Mr. J. M. Brittain
The Superior Oil Company
P. O. Drawer G
Cortez, Colorado

Dear Mr. Brittain:

Thanks for the Certificates of Compliance and Authorization to Transport Oil or Gas From Lease.

Attached find approved copy for your files.

Mr. N. A. Ludewick resigned last August.

Sincerely,

John K. Petty
Acting Executive Secretary

JKP:mkc
Encl.

46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO

December 23, 1963

Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona

Attention: Mr. N. A. Ludewick

Dear Sir,

Enclosed please find three (3) copies of Form #P-17, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease.

Very truly yours,

J. M. Brittain

JMB/ba
Attach.

File

Mr. J. M. Brittain:

Thanks for the Certificates of Compliance etc to Transport oil or Gas from Lease.

Attached find approved copy for your files, Mr. N. A Ludewick, resigned last August.

Sincerely

46

December 17, 1963

Mr. J. M. Brittain
The Superior Oil Company
P. O. Drawer G
Cortez, Colorado

Dear Mr. Brittain:

In reply to your inquiry of December 10th, we are enclosing a completed Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease in connection with your well, Navajo 'H' #14-16.

Apparently your enclosed copy was inadvertently entered into our files. We are sorry this was not forwarded to you earlier.

Very truly yours,

John K. Petty
Acting Executive Secretary

JKP:MKC
Encl.

46

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO

December 10, 1963

Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona

Attention: Mr. N. A. Ludewick

Dear Sir:

On September 12, 1963 we forwarded three copies of Form #P-17, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease, to cover our well Navajo 'H' #14-16. We understood that these forms were to be further executed by your office, and that one copy would be returned to us for our file. To date we have received no acknowledgment from you, and would therefore appreciate your advising what the status of this form is.

Very truly yours,

J. M. Brittain

JMB/njh

46

THE SUPERIOR OIL COMPANY

P. O. BOX G
CORTEZ, COLORADO

September 12, 1963

Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona

Attention: Mr. N. A. Ludewick

Dear Sir:

Enclosed please find three (3) copies of Form #P-17, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease. As per your letter of February 6, 1963, we have filled in this form and are returning it to you for further execution.

Very truly yours,

J. M. Brittain

JMB/njh
Attach.

File

46

THE SUPERIOR OIL COMPANY

P. O. BOX 1521
HOUSTON 1, TEXAS

June 14, 1963

REGISTERED MAIL
RETURN RECEIPT REQUESTED

Oil and Gas Conservation Commission
State of Arizona
Phoenix, Arizona

Attention: Mr. D. A. Jerome
Executive Secretary

Re: Bond No. 74 76 688 - Blanket Oil and Gas Well Bond

Gentlemen:

Enclosed is duly executed rider to captioned bond changing name of the principal from The Superior Oil Company, a California Corporation, to The Superior Oil Company, a Nevada Corporation.

Any question you may have concerning this rider should be directed to the undersigned at P. O. Box 1521, Houston 1, Texas.

Very truly yours,

THE SUPERIOR OIL COMPANY

K. D. English
Insurance Department

KDE:js
Encl.

46

RECEIVED
JUN 17 1983
STATE O & G
CONS. COMM.

February 6, 1963

Mr. J. M. Brittain, Manager
Sales Department
Superior Oil Company
P. O. Box 276
Cortez, Colorado

Re: Superior Oil Co. - Navajo "H" #2 - Sec. 16,
T41N, R30E, Apache County, Arizona

Dear Mr. Brittain:

On January 14, 1963 we sent you some forms on which to report any gas production you may have from the above captioned well.

Since you must have authorization to transport oil or gas from a lease, we are enclosing ten copies of Form No. P-17, Operator's Certificate of Compliance and Authorization to Transport Oil or Gas from Lease. As soon as we receive three copies properly filled in and executed, we will make our approval and return one copy for your files.

Yours very truly,

N. A. Ludewick
Executive Secretary

hme
encs 10

46

January 14, 1963

Mr. J. M. Brittain, Manager
Sales Department
Superios Oil Company
P. O. Box 276
Cortez, Colorado

Re: Twin Falls Creek
Navajo County, Arizona

Dear Mr. Brittain:

Mr. Petty asked me to forward to you Gas Production Report forms as well as some others you may find applicable at a future time.

Also enclosed is a copy of our latest rules and regulations that you may not already have.

If we may be of any further assistance, please do not hesitate to call upon us.

Yours very truly,

Helen M. Eremie
secretary

encs

46

July 6, 1960

Mr. E. F. Patman
Superior Oil Company
Perry-Brooks Building
Austin, Texas

Dear Mr. Patman:

This will acknowledge receipt of a blanket bond in the amount of $10,000.00 executed by the Superior Oil Company as Principal; and Fidelity and Deposit Company of Maryland as Surety, binding themselves to the State of Arizona for faithful performance of all obligations imposed upon the Superior Oil Company in drilling oil and gas wells in Arizona.

You are herewith advised that Superior Oil Company bond #7266168, issued by the Fidelity and Deposit Company of Maryland as Surety and binding themselves to the State of Arizona for faithful performance of all the obligations imposed upon the Superior Oil Company in drilling oil and gas wells in Arizona; to wit: Superior Oil Company, Navajo Tribal "H" well #14-16, located in Section 16, T. 41N, R. 30E, Apache County, Arizona; in the amount of $2500, is hereby released and superceded by your blanket bond hereinabove referred to in Paragraph No. 1 of this letter.

Superior Oil Company bond #7265025, issued by the Fidelity and Deposit Company of Maryland as Surety, and binding themselves to the State of Arizona for faithful performance of all the obligations imposed upon the Superior Oil Company in drilling oil and gas wells in Arizona; to wit: Superior Oil Company Navajo Tribal "H-1", located in Section 10, T. 41N, R. 30E, Apache County, Arizona; in the amount of $2500, is hereby released and superceded by your blanket bond hereinabove referred to in Paragraph 1 of this letter.

We are sending an extra copy of this letter so that you may forward it to your Surety, the Fidelity and Deposit Company of Maryland, to the end that they will release the two $2500 bonds mentioned herein.

In closing, we hope that you will be able to file your applica-

46

tions to drill your two wells in the very near future.

Yours very truly,

D. A. Jerome
Executive Secretary

DAJ/ew
Enclosure

4p

April 28, 1960

Mr. G. Bannantine
THE SUPERIOR OIL COMPANY
P. O. Drawer G
Cortez, Colorado

RE: Rules and Regulations

Dear Mr. Bannantine:

We enclose the Rules and Regulations, requested in your letter of April 26th.

Please note change of office designation and address.

If we can be of assistance, please call.

Sincerely yours,

W. F. Maule,
Petroleum Engineer

WFM:mmr

Enclosure: Rules & Regulations

46

THE SUPERIOR OIL CO.
P. O. Drawer G
Cortez, Colorado

April 26, 1960

State Land Department
State of Arizona
Phoenix, Arizona

Attention: Mr. Obed M. Lassen, State Land Commissioner

Dear Sir:

May we please have three copies of "General Rules and Regulations Governing the Conservation of Oil and Gas in Arizona - Statewide Rules and Regulations".

Thanking you,

Yours very truly,

G. Bannantine

G. Bannantine

/lbc

46

September 16, 1959

Texaco Inc.
P.O. Box 817
Farmington, New Mexico

Gentlemen:

Mr. Phil Johnson advised me you are seeking a number of organization reports to cover your acquisition of the Superior Oil and Gas Company. We are herewith enclosing a supply for your use.

Yours very truly,

D. A. Jerome
Executive Secretary

Encls.

DAJ/jds

46

August 12, 1959

The Superior Oil Company
309 Simms Building
Albuquerque, New Mexico

Attention: H. J. Caine

Dear Mr. Caine:

This is to acknowledge and thank you for your letter of July 29, 1959, advising this office that it was no longer your desire to hold confidential the information and data from your Navajo H-2.

This office will treat the information accordingly.

Thank you for keeping us advised.

Very truly yours,

OIL AND GAS CONSERVATION COMMISSION

Frederick C. Ryan,
Acting Executive Secretary

FCR:mb

46

THE SUPERIOR OIL COMPANY
309 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

July 29, 1959

Frederick C. Ryan, Sup't
Oil & Gas Commission
State Land Department
Phoenix, Arizona

Dear Mr. Ryan:

Please be advised that after August 3, 1959, we no longer desire to hold confidential the information on our H-2 gas well in Sec. 16, T.41N., R.30E., Apache County, Arizona.

The Superior Oil Company appreciates the cooperation and consideration that the State of Arizona has given us in reference to keeping the data confidential to this date.

Very truly yours,

THE SUPERIOR OIL COMPANY

H. J. Caine

H. J. Caine

HJC:gq

cc J. T. Isberg
N. W. Engel
W. H. Fraser, Jr.
George Nugent
Taylor Hancock
R. B. Maurer
Keith Layton

46

000044

RECEIVED
JUL 31 1959
STATE O & G
CONS. COMM.

March 20, 1959

The Superior Oil Company
309 Simms Building
Albuquerque, New Mexico

Attention: H. J. Caine

Dear Mr. Caine:

Reference is made to your letter of March 11, 1959 and to our telephone conversation of March 20, 1959 regarding the extension of the period of holding confidential the information contained in the records of your H-2 well in Section 16, Township 41 North, Range 30 East, Apache County, Arizona.

Confirming the verbal extension given you this date per telephone conversation referred to above, this office will hold such information confidential for a period extending six months from March 17, 1959.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

FCR:mb

46

THE SUPERIOR OIL COMPANY
309 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

March 11, 1959

4039

State Land Commission
State Land Department
State of Arizona
Phoenix, Arizona

Attn: Frederick C. Ryan

Dear Sir:

Reference is made to our telephone conversation of March 10, 1959, when you informed me that the State Land Commission will, by administrative procedure, extend the period of time in which you will keep well records confidential.

Our engineering department in Cortez informs me they have forwarded to you the records on our H-2 well (H#14-16) Section 16, T.41N., R.30E., Apache County, Arizona, with the understanding that you were not to release this information before March 17. In accordance with your advice, at this time, we ask your approval for an additional 6 months period, subject to additional extension, in which to keep the records on this well confidential.

Thank you very much for your courteous and prompt attention.

Very truly yours,

THE SUPERIOR OIL COMPANY

H. J. Caine

H. J. Caine

HJC:gq

cc J. T. Isberg - Los Angeles

per HJC telephone 10:40 20 March
Albuquerque Verbal extension 6 mo.

46

THE SUPERIOR OIL CO.

P. O. Box 276
Cortez, Colorado

February 17, 1959

State Land Department
State of Arizona
Phoenix, Arizona

Attention: Mr. Frederick G. Ryan
Supervisor, Oil & Gas Conservation.

Dear Mr. Ryan:

Enclosed are two copies each of the well completion report and Capacity Test Report on our Navajo "H" #14-16 well located in Section 16, T41N, R30E, Apache County, Arizona.

If you need any additional information, please don't hesitate to call on us.

We will appreciate your keeping this information confidential for as long a period as is possible.

Yours truly,

D. D. Kingman

D. D. Kingman
Engineer

DDK/ba

2542

RECEIVED
FEB 18 1959
STATE LAND DEPT.

46

November 1, 1957

Mr. W. H. Fraser
The Superior Oil Company
P. O. Box 200
Casper, Wyoming

Dear Mr. Fraser:

We wish to acknowledge receipt of the bond in the amount of $2,500 for the Superior Oil Company as principal, and the Fidelity and Deposit Company of Maryland as Surety, which covers the drilling of a well for oil and gas in Section 16, Township 41 North, Range 30 East, Apache County, Arizona.

Inclosed please find your copy of the Intention to Drill which has been approved by the State Land Commissioner as of October 31, 1957. We are also inclosing your receipt in the amount of $25.00 covering this drilling operation.

We would appreciate hearing from you in regard to the disposition of the cuttings from your Navajo Tribal H-1 well, or if this has not been accomplished, your plans in submitting driller's logs, electrical or otherwise.

Very truly yours,

STATE LAND COMMISSIONER

By: Frederick C. Ryan,
Supervisor,
Oil and Gas Conservation

mb
Encl.

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THE SUPERIOR OIL COMPANY

DRILLING & PRODUCTION DEPT.

P. O. BOX 200

CASPER, WYOMING

October 18, 1957

State Land Department
State of Arizona
Phoenix, Arizona

Attention: Louis C. Duncan

Attached you will find a Drilling Bond in the amount of $2,500.00 to cover the drilling of our Navajo H-2, located in the SW/4 SW/4 Section 16, T41N R30E, Apache County, Arizona.

The Notice of Intention to Drill has been previously filed with your office by George Nugent of Cortez, Colorado.

THE SUPERIOR OIL COMPANY

By W H Fraser
W. H. Fraser

WHF:jg
w:Att.
cc:G. E. Nugent

RECEIVED OCT 21 1957 STATE LAND DEPT.

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