Superior Oil Co. 22-12 Navajo-V
SE/4-NW/4 Sec. 12 Twp. 39N R23E

[redacted]

F-W

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Release
5-25-65

COUNTY Apache AREA Dinnehotso LEASE NO. 14-20-0603-8062

WELL NAME Superior Oil Company #22-12 Navajo-V

LOCATION SE NW SEC 12 TWP 39N RANGE 23E FOOTAGE 1980 FNL 1980 FWL

ELEV 5216' GR 5228' KB SPUD DATE 10-5-64 STATUS P&A COMP. DATE 11-27-64 TOTAL DEPTH 6468' 6475' Am Strat

CONTRACTOR

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH
16"	77'	150 sx	NA
10 3/4"	749'	475 sx	

DRILLED BY ROTARY x
DRILLED BY CABLE TOOL
PRODUCTIVE RESERVOIR
INITIAL PRODUCTION P&A

FORMATION TOPS	DEPTHS	SOURCE L.L.	SOURCE E.L.	REMARKS
DeChelly	1876'	x	x	Am Strat differs
Organ Rock	2570'			
Cutler	3163'			
Hermosa	3954'			
Ismay	4548'			
Lower Ismay	4598			
Desert Creek	4649			
Chimney Rock	4753'			
Molas	5262'			
Miss.	5342'			
Duray	5737'			
Elbert	5779'			
Mccracken	5980'			
Aneth	6106'			
Cambrian & Pre-Cambrian	6222-6402			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS
IE/GRN, Sonic GR		

SAMPLE LOG Am Strat
SAMPLE DESCRP.
SAMPLE NO. 1476*
CORE ANALYSIS x
DSTs x
*Tucson 2548

REMARKS

APP. TO PLUG x
PLUGGING REP. x
COMP. REPORT x

WATER WELL ACCEPTED BY

BOND CO. Fidelity & Deposit Company of Maryland BOND NO. 74-76-688

BOND AMT. $ 10,000 CANCELLED DATE ORGANIZATION REPORT 5-15-64

FILING RECEIPT 9391 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. DATE ISSUED 10-7-64 DEDICATION E/2 NW/4

PERMIT NUMBER 292

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(over)

Release Date 5-25-65

DRILL STEM TEST

NO.	FROM	TO	RESULTS
			SEE FILE AND AM STRAT

CORE RECORD

NO.	FROM	TO	RECOVERY	REMARKS
				SEE FILE AND AM STRAT

REMEDIAL HISTORY

DATE STARTED	COMPLETED	WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

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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 [X]

DESCRIPTION OF WELL AND LEASE

Operator: THE SUPERIOR OIL COMPANY	Address: P. O. DRAWER 'G', CORTEZ, COLORADO
Lease Name: Navajo 'V'	Well Number: #22-12 / Field & Reservoir: Wildcat

Location: 1980' FNL and 1980' FWS, Sec. 12, T39N, R23E, G&SRM (Sec.—TWP-Range or Block & Survey)

County	Permit number	Date Issued	Previous permit number	Date Issued
Apache	292	Oct. 7, 1964	------	-----

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.)	Elevation of casing hd. flange
Oct. 5, 1964	Nov. 25, 1964	Nov 27, 1964 (Aband.)	5228' KB feet	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.
6468'	Surface	----	

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
None	6468'	None

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): IES GR-Neutron, GR-Sonic-Caliper (filed), and Cont. Dipmeter (not filed) — Date filed:

CASING RECORD

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

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor	20"	16"	42.75	77'	150	None
Surface	15"	10-3/4"	32.75	749'	475	None

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

PERFORATION RECORD			ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD	
Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production	Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)
Dry and Abandoned	

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

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

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

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

NOTE: This well is a 'tight hole'. Please keep all information CONFIDENTIAL.

December 15, 1964
Date

Jerome C. Gordy
J. C. Gordy
Signature

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292

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. P-7 File two copies

JCG/njh

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
FORMATION TOPS FROM LOGS:			
De Chelly	1876'		
Organ Rock	2570'		
Cutler	3163'		
Hermosa	3954'		
Ismay	4548'		
Lower Ismay	4598'		
Desert Creek	4649'		
Chimney Rock	4753'		
Molas	5262'		
Mississippian	5342'		
Ouray	5737'		
Elbert	5779'		
McCracken	5980'		
Aneth	6106'		
Cambrian	6222'		
Pre-Cambrian	6402'		
TD	6468'		
	SEE ATTACHED REPORT OF DST's AND CORES.		

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* 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 acceptabibe 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. P-7

SUNDRY NOTICES AND REPORTS ON WELLS

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1. Name of Operator The Superior Oil Company, P. O. Drawer 'G', Cortez, Colorado

2. OIL WELL [ ] GAS WELL [ ] OTHER [X] (Specify) Dry Hole

3. Well Name Navajo 'V' #22-12

Location 1980' FNL and 1980' FWL

Sec. 12 Twp. 39N Rge. 23E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Navajo Tribal Lease #14-20-0603-8062

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	MONTHLY PROGRESS	[ ]
FRACTURE TREAT	[ ]	DIRECTIONAL DRILL	[ ]	FRACTURE TREATMENT	[ ]	REPAIRING WELL	[ ]
SHOOT OR ACIDIZE	[ ]	PERFORATE CASING	[ ]	SHOOTING OR ACIDIZING	[ ]	ALTERING CASING	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]			ABANDONMENT	[X]
(OTHER)			[ ]	(OTHER)			[ ]

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

7. 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.)

Abandoned well on Nov. 27, 1964 by equalizing the following plugs:

#1 - With DP @ 6230', equalized 75 sacks reg cmt, calculated top of plug - 5970'. Log Tops - Cambrian 6222', Aneth 6106', and McCracken 5980')

#2 - With DP @ 5440', equalized 50 sacks reg cmt, calculated top of plug - 5310'. (Mississippian - 5342')

#3 - With DP @ 4000', equalized 50 sacks reg cmt, calculated top of plug - 3870'. (Hermosa - 3954')

#4 - With DP @ 1930', equalized 50 sacks reg cmt, calculated top of plug - 1800'. (De Chelly 1876')

#5 - With DP @ 800', equalized 50 sacks reg cmt across bottom of 10-3/4" casing @ 749'. Check top of plug at 654' after 4 hrs.

#6 - Placed 10 sacks cement in top of 10-3/4" casing, welded steel plate to casing stub and erected standard dry hole marker.

The above plan of abandonment verbally approved 11/25/64 by Mr. J. R. Scurlock by telephone.

NOTE: This well is a 'tight hole', please keep information CONFIDENTIAL.

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

Signed Jerome C. Gordy J. C. Gordy Title Drilling Engineer Date December 1, 1964

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Permit No. 292

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

ARIZONA
APACHE CO.
WILDCAT (W)

PETROLEUM INFORMATION
DENVER CASPER
ROCKY MOUNTAIN
OIL INFORMATION

Twp 39n-23e
Section 12
se nw
1980 s/n 1980 e/w

OPR: Superior Oil

WELL #: 22-12 Navajo-V

ELEV: 5216 Gr

TOPS: Log-Sample
DeChelly 1876
Organ Rock 2570
Cutler 3163
Hermosa 3954
Ismay 4548
Lower Ismay 4598
Desert Creek 4649
Chimney Rock 4753
Molas 5262
Mississippian 5342
Ouray ls 5737
Elbert 5779
McCracken 5980
Aneth 6106
Cambrian 6222
preCambrian 6402

DSTS. & CORES:
Crd 5980-96, rec 2½ sd, very siliceous, dense, scatt ppp; 4 in qtz; 5' 8" silt, dense; 6 in qtz. Crd 5996-6019, rec 4 dolo, sdy, saccharoidal, hard, dense; 1 dolo, vert fract; 1 dolo, sdy, scatt ppp, very hard, vert fracts; 2 dolo, sdy; 4 dolo, very sdy, vert fracts, trace pyrite; 1 dolo, sdy, fine saccharoidal; 2 dolo, dense to fine saccharoidal, sli sdy; 2 dolo, sdy, fine saccharoidal; 1 sd, dolo, tight; 1 silt, dense; 2 sd, dolo, glau; 1 sd, silt inclusions, dolo, scatt vugs; 1 silt, sli dolo, sdy. Crd 6020-80, rec 2 sh, sli silty; 2 sh, siliceous, sli silty; 1 silt, dense; 2 silt, shly, dense; 3 silt, sli sdy, hard, dense; 4 silt, vert fracts; 2 silt, siliceous; 2 sh, very siliceous, (over)

SPUD: 10-5-64 COMPL: 11-27-64
TD: 6468 PB:
CSG: 16" @ 77 w/150
10-3/4" @ 749 w/475

INIT. PROD: D&A

Contr: not reported.

ARIZ2-560270

sli silty; 2 sd, sli glau & dolo, some visible poro, wet appearance; 9 sd, scatt feldspars, wet appearance; 1 sd, hard, dense; 1 silt, dense; 5 silt, siliceous, dense; 2 silt, scatt coarse sd; 3 sd, hard & tight; 6 sd, dense, tight; 3 silt, dense; 1 sh, very silty; 5 silty, sli sdy, tight; 1 sd, sli dolo, hard; 3 sd, hard & tight; 1 silt, shly, slickensided, scatt horiz fracts; 1 sd, tight, sli dolo, vert fracts; 2 sd, dolo; 1 sd, vert fracts, hard & tight. Crd 6080-6119, rec 1 sd, tight; 4 sd, hard & tight; 2 sd, dolo, tight; 1 sd, tight; 1 dolo, scatt sd; 3 dolo, saccharoidal, tight; 1 sd, hard & tight; 1 silt; sdy, hard & tight; 2 sd, dolo, tight; 1 silt, dolo, tight; 1 sh, very silty & sdy, hard & tight; 4 sd, hard & tight; 1 sd, some feldspar; 2 dolo, siliceous, occ spotty oil stain, oil filled vert fracts, yellow fluor in stains & fracts; 1 dolo, as above, scatt vugs, dead oil; 1 dolo, as above; 1 dolo, hard & tight; 1 dolo, fine saccharoidal, dense; 1 dolo, massive, dense. Crd 6119-30, rec 10 dolo, dense, vert fract in part, some fine saccharoidal. Crd 6130-59, rec 10 dolo, saccharoidal, dense, horiz & vert fracts, scatt oil stain, poor fluor; 1 dolo, very fine saccharoidal, dense, scatt dull fluor; 1 dolo, dense, hard, dull fluor in fracts; 2 dolo, very fine saccharoidal, dense, dull fluor in fracts, sli odor on fresh break. Crd 6159-72, rec 3 dolo, fine saccharoidal, dense, hard, sli oil stain in fracts, some fluor; 1 dolo, fine saccharoidal to massive, wet appearance; 1 dolo, fine saccharoidal, dull fluor; 1 dolo, fine saccharoidal, some oil stain, no odor or taste; 2 dolo, very fine saccharoidal, some bright fluor in fracts, no odor, brown oil stain; 1 dolo, dull patchy fluor, scatt oil stain; 2 dolo, fine saccharoidal, scatt oil stain & fluor. (over)

Crd 6172-6216, rec 1 dolo, oil stain & patchy fluor in fracts; 1 dolo, vert & horiz hairline fracts w/oil stain & fluor; 4 dolo, fine to medium saccharoidal, good odor, oil stain & fluor, bleeding oil & gas; 2 dolo, fine to medium saccharoidal, widely scatt vugs, poor fluor; 2 dolo, no vugs, some oil stain & scatt fluor; 2 dolo, fine to medium saccharoidal, good fluor, oil stain & odor in fracts; 2 dolo, fine to medium saccharoidal w/scatt oil stain & fluor in fracts; 2 dolo, fine saccharoidal, patchy oil stain & fluor; 5 dolo, shly; 1 dolo, scatt ppp, scatt fluor & oil stain; 2 dolo, very finely saccharoidal, very poor oil stain & fluor; 2 dolo, hard, dense, medium to large vugs oil filled, bleeding oil; 1 dolo, scatt medium to large vugs w/oil; 1 dolo, small vug poro, bleeding oil & gas; 1 dolo, dense, hard, scatt hairline fracts w/oil stain. Crd 6218-55, rec 2 dolo, very silty, dense; 1 sd, few pebbles, siliceous chert, dense; 1 sd, sli dolo, dense; 1 silt, dolo w/fine to coarse sd; 2 sd, sli dolo; 1 sd, occ chert fragments, dense; 1 silt, arg & sdy, dense; 1 sd, sli dolo; 2 silt & sd; 2 silt, very sdy; 1 sd, sli dolo; 1 sd w/fragmental silt, sli dolo; 2 sd, very arg, dense; 3 sd, dolo, very siliceous; 2 sd, dolo; 2 sh; 12' 6" dolo, very siliceous. DST 5982-6020, SI 30 mins, open 1 hr, SI 1 hr, rec 15 mud, FP 8-8#, SIP 1296-8#, HP 2798-2798#. DST 6097-6119, SI 30 mins, open 1 hr, SI 30 mins, rec 30 very sli OCM, FP 28-28#, SIP 563-56#, HP 2996-2996#. DST 6097-6159, SI 30 mins, open 1 hr, SI 30 mins, rec 15 mud, FP 28-28#, ISIP 926#, HP 3010-3010#. DST 6100-6216, SI 30 mins, open 1 hr, SI 1 hr, rec 4" oil, 100 mud, FP 28-56#, SIP 1797-1628#, HP 3010-3010#.

NAVAJO 'V' #22-12
November 12, 1964

DST #1: 5982'-6020', 38'
Ran a Halliburton Hydro-spring tester on 4½" DP dry with a 3/4" BHC and adjustable surface choke. Set packer at 5982' with perforated anchor to 6020'. Opened tool for 5 min initial flow at 4:25 a.m. with a very weak blow of air. Closed tool at 4:30 a.m. for 1/2 hr. ISIP. Opened tool at 5:00 a.m. for 1 hr flow period with a slight blow, then dead immediately. Closed tool at 6:00 a.m. for 1 hr FSIP. Pulled and recovered 15' of drilling mud - 9.3#/gal.

Pressure	Top	Bottom
IHSP	2798 psi	2868 psi
IFP	8.7	8.9
ISIP	1296	1328
FFP	8.7	8.9
FSIP	8.7	8.9
FHSP	2798	2868

November 15, 1964

DST #2: 6097'-6119'
Ran Halliburton Hydro-spring tester on 4½" DP dry with a 3/4" BHC and adjustable surface choke. Set packer at 6097' with perforated anchor to 6119'. Opened tool to atmosphere for 10 min purge at 2:47 a.m. with a very weak blow of air. Closed tool for 1/2 hr ISIP. Opened tool at 3:27 a.m. for 1 hr flow test, no blow. Closed tool at 4:27 a.m. for 1 hr FSIP. Pulled and recovered 30' drilling mud - 9.3#/gal with rainbow of black oil on top - estimate 3". (Mud very slightly oil cut.)

Pressure	Top	Bottom
IHSP	2995.8 psi	3018.6 psi
ISIP	562.8	577.7
IFP	28.2	28.8
FFP	28.2	28.8
FSIP	56.3	86.5
FHSP	2995.8	3018.6
BHT	122°F	

November 17, 1964

DST #3: 6097'-6159'
Ran Halliburton Hydro-spring test tool with 3/4" BHC and adjustable surface choke on 4½" DP dry. Set pkr at 6097' w/perf anchor to 6159'. Opened tool to atmosphere for 10 min at 9:50 a.m. with very weak blow of air throughout period. Closed for ISIP at 10:00 a.m. for 1/2 hr. Opened tool for 1 hr flow period at 10:30 a.m. with no blow. Closed tool for 1 hr FSIP at 11:30 a.m. Pulled and recovered 15' drilling mud - 9.5#/gal.

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DST #3 (Cont'd.)

Pressure	Top	Bottom
IHSP	3009.9 psi	3018.6 psi
ISIP	926	928
IFP	28.2	28.8
FFP	28.2	28.8
FSIP	3009.9	3018.6
BHT	122°F	

November 20, 1964

DST #4: 6095'-6216' - Misrun
Ran Halliburton Hydro-spring tester on 4½" DP dry with 3/4" BHC and adjustable surface choke. Packer placed at 6095' with perf anchor to 6216'. Attempted to set packer, failed to hold. Pulled up and attempted to reset, failed again. POH.

DST #5: 6100'-6216'
Ran Halliburton Hydro-spring tester on 4½" DP dry with 3/4" BHC and adjustable surface choke. Set packer at 6100' with perf anchor to 6216'. Opened tool to atmosphere at 4:30 p.m. for 15 min with very weak blow of air for entire period. Closed tool for 1/2 hr ISIP at 4:45 p.m. Opened tool for 1 hr flow test at 5:15 p.m. with occasional bubbles of air for 15 min, then dead for remainder of period. Closed tool for 1 hr FSIP at 6:15 p.m. Pulled and recovered 100' of drilling mud with approximately 4" oil at top. Mud weighed 9.3 ppg at top of column and 8.7 ppg above tool. Chlorides in contaminated (cut) mud 16,000 ppm (normal for mud - 200 ppm), no apparent oil or gas cutting.

Pressure	Top	Bottom
IHSP	3009.9 psi	3075.7 psi
ISIP	1797.2	1849.4
IFP	28.2	115.3
FFP	56.3	144.1
FSIP	1628.2	1650.6
FHSP	3009.9	3075.7
BHT	124°F	

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NAVAJO 'V' #22-12

11/21/64 CORE #9: 6218 to 6255', Cut 37', Recovered 34½', Time 13½ hrs.

2' 0"	Dolomite, dk gry, v. sandy, v. silty, siliceous, v. hard, dense, scatt pyrite, NS
1' 0"	Sandstone, dk gry, fn to cse, sli conglomeritic, few pebbles of dk gry poor grade siliceous chert, dense, hard, NS
1' 0"	Sandstone, dk gry, fn to cse, occ siliceous pebbles, sli dolomitic, tr pyrite, hard, dense, NS
1' 0"	Siltstone, dk gry, dolomitic with fn to cse sand grains, hard, dense, NS
2' 0"	Sandstone, dk gry, poorly sorted, frm silty to scatt cse, occ chert grains, sli dolomitic, dense, hard, grades to sandy siltstone, NS
1' 0"	Sandstone, med gry, poorly sorted, with pyrite, occ chert frag, dolomitic along fractures, dense, hard, NS
1' 0"	Siltstone, dk gry, argil and sandy, some dolomite filled fracs, dense, hard NS
1' 0"	Sandstone, med gry, v. poorly sorted, with lg frags, argil siltstone sli dolomitic, tr glauconite, dense, hard, NS
2' 0"	Siltstone & sandstone, similar to above
1' 0"	Siltstone, dk gry, v. sandy, similar to above
1' 0"	Sandstone, med gry, v. fn with scatt cse, sli dolomitic, dense, hard, NS
1' 0"	Sandstone, med gry, fn to cse, w/frag of siltstone, sli dolomitic, dense, hard, NS
2' 0"	Sandstone, as above, v. argil, occ frag chert, dolomitic in fracs, dense, hard, NS
1' 0"	Sandstone, med gry, fn to cse, numerous siltstone frags in parallel laminations dolomitic, v. siliceous, dense, hard, NS
2' 0"	Sandstone, med gry, fn to cse, poorly sorted, dolomitic, v. siliceous, hard, dense, NS
2' 0"	Shale, med gry, siliceous, finely mottled, thinly laminated, NS
12' 6"	Dolomite, med grn-gry, dense, with grains micro xln dolomite, v. siliceous, pyrite, glauconitic, dense, hard, NS

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11/17/64	CORE #6: Cont'd
2' 0"	Dolomite, dk gry, v. fn, saccharoidal, dense, hard, with horiz & vert hairline fracs, dull fluor in fracs and sli odor on fresh break
11/18/64	CORE #7: 6159' to 6172', Cut 13', Recovered 10'
1' 0"	Dolomite, med gry, fn saccharoidal, dense, hard, vert & horiz fracs, sli stain in fracs, no odor or fluor
2' 0"	Dolomite, as above, brt yellow fluor in hairline fracs
1' 0"	Dolomite, med gry, fn saccharoidal to massive, dense, hard, vert & horiz fracs, no stain, odor or fluor, wet appear in fracs, no taste
1' 0"	Dolomite, med gry, fn saccharoidal, dense, hard, vert & horiz fracs, no odor or stain, dull fluor in hairline fracs
1' 0"	Dolomite, lt-med gry, fn saccharoidal, dense, hard, veins of wh dolomite or quartz, some stain, widely scatt full fluor,,no odor or taste
2' 0"	Dolomite, med gry, v. fn saccharoidal, dense, hard, vert & horiz fracs, some brt fluor in hairline fracs, no odor, brown stain
1' 0"	Dolomite, as above, dull patchy fluor in fracs, scatt stain
2' 0"	Dolomite, lt med gry, fn saccharoidal, dense, hard, mottled with wh quartz, vert & horiz fracs, scatt stain and full fluor in fracs
11/20/64	CORE #8: 6172' to 6216', Cut 44', Recovered 30'
1' 0"	Dolomite, lt gry, fn saccharoidal, dense, hard, tr pink sand grains, hairline fracs with oil stain and patchy fluor in fracs
1' 0"	Dolomite, lt gry, fn saccharoidal, dense, hard, tr pink sand grains, small to v. large vugs, vert & horiz hairline fracs with oil stain and fluor in fracs, good odor on fresh break.
4' 0"	Dolomite, lt gry, fn med saccharoidal, dense, hard, anhydritic med vugs, hairline fracs, good odor, stain, and fluor, bleeding oil & gas
2' 0"	Dolomite, lt gry, fn med saccharoidal, dense, hard, anhydritic, widely scatt vugs, poor fluor, no apparent odor
2' 0"	Dolomite, lt gry, as above, dense - no vugs, hairline fracs, some stain and scatt fluor in fracs, no odor
2' 0"	Dolomite, lt gry, fn med saccharoidal, dense, hard, scatt small vugs, vert and horiz hairline fracs, good fluor, stain & odor in fracs
2' 0"	Dolomite, lt-med gry, fn-med saccharoidal, dense, hard, anhydritic, scatt hairline fracs, vert and horiz scatt stain & fluor in fracs, no apparent odor
2' 0"	Dolomite, v lt gry, fn saccharoidal, dense, hard, vert & horiz hairline fracs, poor dull fluor in fracs, no apparent odor or stain
1' 0"	Dolomite, med-dk gry, v. fn saccharoidal, dense, hard, minute horiz fracs, patchy stain and fluor in fracs, no apparent odor
5' 0"	Dolomite, dk gry, v. fn saccharoidal, dense, hard, very shaley, NS, vert fracs
1' 0"	Dolomite, dk gry, v. fn saccharoidal, hard, scatt pp porosity, scatt fluor ~~and stain~~, poor odor
2' 0"	Dolomite, dk gry, v. fn saccharoidal, hard, dense, hairline fracs, v. poor stain and fluor in fracs, no odor
1' 0"	Dolomite, med gry, fn saccharoidal, hard, dense, vert fracs, med-lg vugs, oil filled fleeding oil and gas, excellent odor, stain and fluor
1' 0"	Dolomite, as above, vugs small to v. fine, shows as above
1' 0"	Dolomite, lt med gry varying to dk gry streaks, v. fn saccharoidal to massive, vert & horiz hairline fracs, stain & fluor in fracs scatt med to lg vugs - oil filled, good odor
1' 0"	Dolomite, dk gry, fn saccharoidal, hard, scatt pp to small vuggy porosity bleeding oil and gas, excellent odor
1' 0"	Dolomite, lt gry w/streaks med gry, dense, hard, fn saccharoidal, tr calcite, scatt hairline fracs, some stain in fracs, poor scatt fluor, no odor

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11/13/64		CORE #3 - Cont'd.
5'	0"	Siltstone, mottled gry to brn, sli sandy, hard, tite, dense, NS, vert fracs
1'	0"	Sandstone, lt gry-grn, predominantly fn grn w/scatt porosity, sli dolomitic, sli glauconitic, hard, NS
3'	0"	Sandstone, mottled brn-gry, fn grained, hard, tite, NS
1'	0"	Siltstone, gry-grn, shaley, sli dolomitic, hard, tite, NS, slickenslide, scatt horiz fracs
1'	0"	Sandstone, lt gry, fn grain, hd, tite, sli dolomitic, vert fracs, NS
2'	0"	Sandstone, gry-grn with mottled brn, fn grained, dolomitic, vert fracs, NS
1'	0"	Sandstone, lt gry, fn-med grns, scatt cse grns, vert fracs, with scatt pink grains, hard, tite, NS
11/14/64		CORE #4: 6080' to 6119', Cut 39', Recovered 30'
1'	0"	Sandstone, med gry, fn to cse grains, hard, tite, NS
4'	0"	Sandstone, lt gry, predominantly fine, scatt pink quartz grains, tr glauconite, hard, tite, NS
2'	0"	Sandstone, lt gry, v. fn grain, dolomitic, hard, tite, NS
1'	0"	Sandstone, brn & gry, fn grains, hard, tite, NS
1'	0"	Dolomite, lt gry, hard, dense, scatt sd grains, NS
3'	0"	Dolomite, brn & gry, v. sandy, saccharoidal, hard, tite, NS
1'	0"	Sandstone, mottled gry & brn, fn grain, hard, tite, NS
1'	0"	Siltstone, gry & brn, sandy, hard, tite, NS
2'	0"	Sandstone, gry with pink quartz grains, med grain, dolomitic, hard, tite, NS
1'	0"	Siltstone, lt gry, dolomitic, hard, tite, NS
1'	0"	Shale, gry, v. silty and sandy, hard, tite, NS
4'	0"	Sandstone, dk gry, v. fn grains, hard, tite, NS
1'	0"	Sandstone, lt gry, med grain, some feldspar, hard, tite
2'	0"	Dolomite, buff, siliceous, tr chert, dense, hard, occ spotted stain, oil filled vert frac, brt yellow fluor in stains and fracs
1'	0"	Dolomite, as above, with scattered vugs of dead oil, dull yellow fluor
1'	0"	Dolomite, as above, NS
1'	0"	Dolomite, buff, dense, hard, tite with portions showing fine saccharoidal structure, NS
1'	0"	Dolomite, buff, fn saccharoidal, dense, hard, tite, NS
1'	0"	Dolomite, buff, massive, dense, hd, tite, NS
11/16/64		CORE #5: 6119' to 6130', Cut 11', Recovered 10'
1'	0"	Dolomite, lt gry, massive, hard, dense, NS, vert fracs
1'	0"	Dolomite, lt gry-brn, saccharoidal, hard, dense, NS, vert fracs
2'	0"	Dolomite, lt-dk gry, fn saccharoidal, hard, dense, NS
3'	0"	Dolomite, lt gry, v fn saccharoidal, hard, dense, NS, vert fracs
1'	0"	Dolomite, lt gry-grn, fn saccharoidal, glauconitic, hard, dense, NS
2'	0"	Dolomite, med gry, fn saccharoidal, hard, dense, NS
11/17/64		CORE #6: 6130' to 6159', Cut 29', Recovered 14'
5'	0"	Dolomite, med gry, fn saccharoidal, dense, hard, horiz & vert fracs, oil stain with dull yellow fluor in fracs, no apparent odor
1'	0"	Dolomite, lt gry, v. fn saccharoidal, dense, hard, vert fracs with oil stain and dull fluor in fracs, no odor
4'	0"	Dolomite, med gry, v. fn saccharoidal, dense, hairline vert fracs with scatt stain, poor fluor
1'	0"	Dolomite, med gry, v. fn saccharoidal, dense, hard w/horiz & vert veins of wh dolomite, some scatt dull fluor in wh dolomite
1'	0"	Dolomite, med gry, v. fn saccharoidal, dense, hard, horiz & vert fracs, dull fluor in fracs, no odor

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NAVAJO 'V' #22-12

11/10/64 CORE #1: 5980'-5996', Cut 16', Recovered 9'

1'	Sandstone, dk gry, v. siliceous, dense, hard, v.f., NS
1' 6"	Sandstone, lt, gry, siliceous, scatt pp porosity, hard, V.F., NS
0' 4"	Quartzite, tan-buff, cherty, dense, NS
5' 8"	Siltstone, dk gry, v. siliceous, dense, V.F., NS
0' 6"	Quartzite, lt gry, cherty, dense, NS

11/11/64 CORE #2: 5996'-6019', Cut 23', Recovered 23'

1' 0"	Dolomite, buff - lt gry, sandy, saccharoidal, v hard, dense, NS
3' 0"	Dolomite, dk gry, sandy, saccharoidal, v. hard, dense, NS
1' 0"	Dolomite, lt brn gry, as above with numerous wh dolomite xtls, vert fracs, NS
1' 0"	Dolomite, lt gry-brn, sandy, v. fn grain, scatt pp porosity, v hard, vert fracs, NS
1' 0"	Dolomite, lt gry, sandy, w/abundance lg well rounded sd grains, vert fracs, NS
1' 0"	Dolomite, lt gry, sandy, poorly sorted sd grains, vert fracs, may be dolomitic ss, NS
4' 0"	Dolomite, lt grn-gry, v. sandy, tr glauconite, occ. lg sd grains, vert fracs, tr pyrite, NS
1' 0"	Dolomite, lt grn, v. fine sandy, glauconitic, fn saccharoidal, vert fracs, NS
2' 0"	Dolomite, lt grn, dense to fn saccharoidal, sli sandy, glauc, vert fracs, NS
2' 0"	Dolomite, lt grn, v. fn sandy, glauconitic, fn saccharoidal, NS
1' 0"	Sandstone, lt gry, v. fn, dolomitic, glauconitic, hard, tite, NS
1' 0"	Siltstone, dk gry, occ lg grains well rounded sd, dense, NS
2' 0"	Sandstone, lt gry, v. fn grns dolomitic, glauconitic, hard, NS
1' 0"	Sandstone, lt gry, incl grn siltstone, dolomitic, glauconitic, scatt vugs,NS
1' 0"	Siltstone, grn-gry, sli dolomitic, sandy, glauc, tr pytrite, NS

11/13/64 CORE #3: 6020' to 6080', Cut 60', Recovered 60'

2' 0"	Shale, dk grn-gry, hard, siliceous, sli silty, NS
2' 0"	Shale, dk brn, siliceous, sli silty, NS
1' 0"	Siltstone, gry-grn, hard, dense, glauc, NS
2' 0"	Siltstone, dk brn, shaley, mottled with grn siltstone, hard, dense, NS
3' 0"	Siltstone, lt gry, sli sandy, hd, dense, banded with some grn siltstone, NS
2' 0"	Siltstone, dk brn, as above, NS, vert fracs
2' 0"	Siltstone, gry, as above, mottled with brn siltstone, NS
2' 0"	Siltstone, dk brn, siliceous, v. fn grain, NS
2' 0"	Shale, lt grn, v. siliceous, sli silty, dense, NS
2' 0"	Sandstone, wh-lt gry, v. poorly sorted, sli glauc, sli dolomitic, some visible porosity, NS, wet appear.
9' 0"	Sandstone, wh-lt gry, fn-med grain, scatt feldspars, NS, wet appear, scatt vugs
1' 0"	Sandstone, med gry, fn-med grain, hard,dense, NS
1' 0"	Siltstone, lt gry, hd, dense, NS
5' 0"	Siltstone, dk brn, siliceous, dense, hard, NS
2' 0"	Siltstone, brn-lt gry, as above, scatt cse sand grains, NS
3' 0"	Sandstone, mottled gry to brn, v. poorly sorted, v. fn to cse, hard, tite, NS
1' 0"	Sandstone, brn, fn grained, hard, dense, tite, NS
3' 0"	Siltstone, brn, mottled with some grn siltstone, scatt sd grains, hard, dense, tite, NS
1' 0"	Shale, brn & grn, v. silty, hard, NS

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APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR: The Superior Oil Company

DATE: October 5, 1964

Address: P. O. Drawer 'G' | City: Cortez | State: Colorado

DESCRIPTION OF WELL AND LEASE

Name of lease: Navajo 'V'

Well number: #22-12

Elevation (ground): 5216' Gd.

Well location (give footage from section lines) Section—township—range or block & survey: 1980' FNL & 1980' FWL, Section 12, T39N, R23E, G&SRM

Field & reservoir (If wildcat, so state): Wildcat

County: Apache

Distance, in miles, and direction from nearest town or post office: 4 Miles SSE of Dinnehotso, Arizona

Nearest distance from proposed location to property or lease line: 1980' feet

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: 1865' feet

Proposed depth: 6300'

Rotary or cable tools: Rotary

Approx. date work will start: October 5, 1964

Number of acres in lease: 1280 Acres

Acreage dedicated to well: See Remarks

Number of wells on lease, including this well, completed in or drilling to this reservoir: Two. Navajo 'V' #33-12, P&A - 5/6/64

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

Status of bond: Blanket Bond

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

Propose to drill a well through the Devonian-Aneth formation to explore for oil & gas.

Acreage dedicated to this well: 80 acres consisting of the NE and SE quarters of the NW quarter section, Sec. 12, 39N, 23E.

Note: This well is to be drilled as a "Tight Hole". Please keep all information CONFIDENTIAL.

Verbal approval to spud granted by Mr. John Bannister by phone on October 5, 1964.

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the District Drilling Engineer of ~~XXX~~ 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.

October 5, 1964
Date

Jerome C. Gordy
Signature J. C. Gordy

Permit Number: 292
Approval Date: 10-7-64
Approved By: John Bannister

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

See instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1 File two copies

Effective Feb. 28, 1962.

JCG/njh

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10-3/4"	32.75	H-40 ST&C	Surf.	750'	Circ to Surface	475
7"	23	J-55 ST&C	Surf.	6300'	Circ through Productive Zones	To be determined.

Form No. P-1

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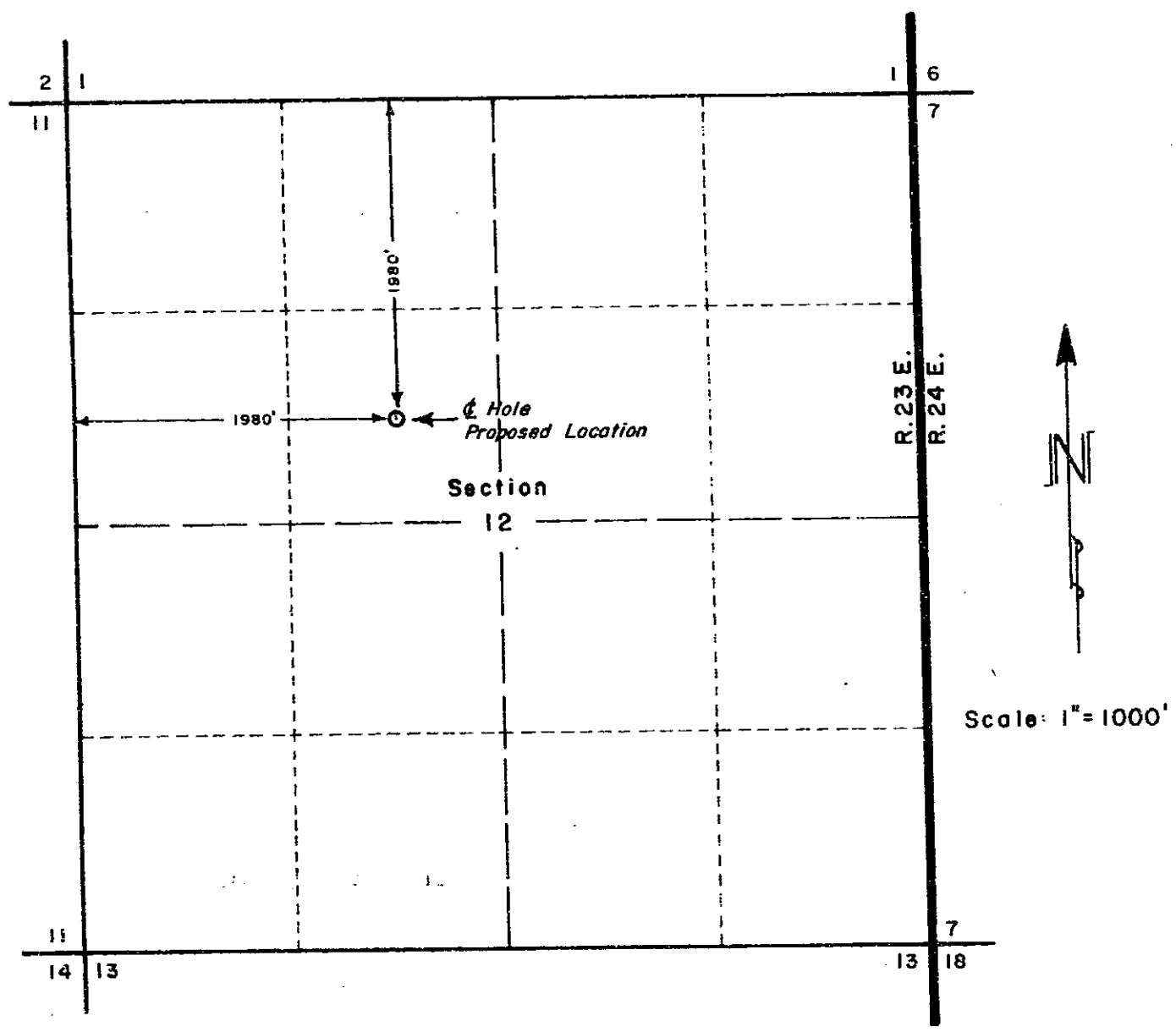

WELL LOCATION: The Superior Oil Co. - Navajo "V" # 22 - 12

Located 1980 feet South of the North line and 1980 feet East of the West line of Section 12,
Township 39 North, Range 23 East, Gila & Salt River Meridian,
Apache Co, Arizona
Existing ground elevation determined at 5216 feet based on adjoining well locations.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H Reed

FREDERICK H. REED
Registered Land Surveyor
State of Arizona # 5313

REGISTERED LAND SURVEYOR
FREDERICK HAMILTON REED
DEC. 1, 1964

THE SUPERIOR OIL CO.	
WELL LOCATION PLAT Sec. 12, T. 39 N., R.23 E. Apache Co., Arizona	
CLARK - REED & ASSOC. Durango, Colorado	DATE Sept. 18, 1964 FILE NO 64064

X-Cheono
X-Lambert

May 14, 1969

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

Re: Superior Oil Co. Navajo V 22-12
T39N, R23E, G & SRM
Sec. 12: SE/4 NW/4
Apache County
Permit #292

Pease #1 Federal
T15N, R10E, G & SRM
Sec. 21: SW/4 NW/4
Coconino County
Permit #475 X

Dear Mrs. Ratcliff:

Bill rec'd 6/10/69

In regards to the Superior Oil Co. Navajo V 22-12 captioned well, would you please render one comprehensive bill that will cover all charges for freight, services, etc. to this Commission. Enclosed is a Voucher For Purchases and Services Other Than Personal in duplicate. Please sign in the indicated spots and return to this office with the billing.

Enclosed also is a copy of my letter dated 5-1-69 to Mr. Wells and Mr. Jorgenson requesting notification of the date that samples on the Pease well were delivered to the Cut. We have had no response to this inquiry as yet. Also, in checking with Mr. Scurlock, he informs me that he does not know the whereabouts of the samples.

If we can be of further service, please do not hesitate to ask.

Yours truly,

James A. Lambert
Administrative Assistant

jf
Enc.

292

PHONE: 325-9232

641 WEST BROADWAY

FOUR CORNERS SAMPLE CUT ASSOCIATION

P. O. BOX 899
FARMINGTON, NEW MEXICO 87401

May 13, 1969

Mr. Jim Scurlock
Room 202
1624 West Adams
Phoenix, Arizona 85007

Dear Jim:

292

Recently the Superior Oil,#22-12 Navajo "V", Sec.12-39N-23E
Apache Co., Arizona
was delivered to the Cut. In fact, it is being processed now. My question is this, since it was P & A the 11-27-64 and this was before your contract with the companies that they should pay for the cut and freight - whom do I may charges to for this well?

I have had inquiries on the Willard Pease, #1 Federal
Sec.2-15N-10E
Yavapai Co. ?
do you know where the samples might be.

475

Could you furnish me with a list either weekly or monthly of intentions to drill in the state of Arizona? This would be a big help to me, and perhaps might be of service to you if I could keep more up to date as to what is going on.

I think I have quoted enough questions and pleas for one time. Do hope this is going to be a good year for the Oil Industry, and hope to hear from you.

Very truly yours,

Jo Ratcliff

Mrs. Jo Ratcliff
Manager

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292

October 10, 1964

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

Attention: Mr. J.C. Gordy

Re: Superior Navajo 'V' #22-12 well
SE/4NW/4, S12-T39N-R23E, Apache County, Arizona
Permit 292

Gentlemen:

Enclosed is approved copy of application to drill captioned well and receipt for filing fee.

If this office may be of any assistance to you, please do not hesitate to contact us.

Very truly yours,

J.R. Scurlock
Geologist

mr
enc

THE SUPERIOR OIL COMPANY

P. O. DRAWER G

CORTEZ, COLORADO
81321

October 5, 1964

Oil & Gas Conservation Commission
1624 West Adams
Phoenix, Arizona 85007

Attention: Mr. John Bannister
Executive Secretary

Dear Mr. Bannister:

We have retyped the Application for Permit to Drill to correct the errors pointed out in your letter of October 1, 1964. The correct location is 1980' FNL and 1980' FWL, Section 12, 39N, G&SRM as indicated on the location plats previously submitted.

The well is to be drilled in the center of the SE¼ of the NW¼ Section 12. The acreage dedicated to the well will consist of the SE and NE quarters of the NW quarter section consisting of 80 acres.

A check in the amount of $25.00 is attached for the filing fee. Please forgive our oversight in omitting this from the original filing.

If we can supply any additional information, please contact us. We hope that these errors have not caused you any inconvenience and hope that this letter will rectify the omissions.

Sincerely,

THE SUPERIOR OIL COMPANY

Jerome C. Gordy

Jerome C. Gordy
Drilling Engineer

JCG/njh

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October 1, 1964

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

Attention: Mr. Jerome C. Gordy

Re: Navajo 'V' 22-12 well
SE/4NW/4, S12, T39N, R23E
Apache County, Arizona
Application to Drill 292

Gentlemen:

We are in receipt of an Application for Permit to Drill the captioned well. Please be advised that the plat attached to the Applications show the well to be in Section 12, while the Application itself shows the location at 1980 feet from the north and west in Section 26.

This Application further fails to designate the eighty acres dedicated to this well. In addition, we have not received the twenty-five dollar filing fee.

Will you please advise us as to the correct location of the well in question, as to the acreage dedication, and remit the necessary filing fee. Upon receipt of this information we will process this permit.

As you are aware, our Application for Permit is a public record. However, any information subsequent to the application will be kept confidential.

If we may be of any further help, please advise.

Yours very truly,

John Bannister
Executive Secretary

mr