

FILE NO. AT. 15Entered in N I D File ✓Entered On S R Sheet ✓Location Map Pinned ✓Card Indexed ✓

I W R for State or Fee Land _____

Checked by Chief ✓Copy N I D to Field Office ✓Approval Letter ✓

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed March 1958 Location Inspected _____

OW _____ WW _____ TA _____

Bond released _____

GW _____ OS _____ PA ✓

State of Fee Land _____

LOGS FILED

Driller's Log 4-4-57Electric Logs (No.) 3E _____ I _____ E-I ✓ GR _____ GR-N ✓ Micro ✓

Lat _____ Mi-L _____ Sonic _____ Others _____



STANDARD OIL COMPANY OF CALIFORNIA

WESTERN DIVISION

211 EAST THIRD SOUTH STREET • SALT LAKE CITY • UTAH

EXPLORATION DEPARTMENT
GREAT BASIN DIVISION
W. P. WINHAM
DIVISION SUPERINTENDENT

March 6, 1957

Oil & Gas Conservation Commission
Room 105 Capitol Building
Salt Lake City 14, Utah

Gentlemen:

Enclosed please find two copies of the "Notice of Intention to Drill", location plat and plat of well location to surrounding leases for Standard Oil Company of California, Navajo 177-1, Section 3, T.40S., R.24E., San Juan County, Utah.

This proposed well, located 817 feet FSL and 1980 feet FWL, falls in the regular spacing pattern requirements as outlined in General Rules and Regulations and Rules of Practice and Procedure, Oil and Gas Conservation Commission, State of Utah.

Very truly yours,

W.P. Winham
W. P. Winham

EWC/mgs

Encl.

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION
NOTICE OF INTENTION TO DRILL

March 6, 19 57

OIL AND GAS CONSERVATION COMMISSION

In compliance with Rule C-4, notice is hereby given that it is our intention to commence the work of drilling Well No. Navajo #177-1, which is located 817 ft from () line and 1980 ft from () line of Sec 3, Twp 40S, R 24E, SL Outpost Aneth (Meridian) (Field or Unit)

San Juan (County) on or about 15th day of March, 19 57

LAND: Trust Standard Oil Company of California
Resecond Patented (X) Name of Owner of patent or lease
State ()
Lease No Address P.O. Box 1076
Public Domain () Salt Lake City, Utah
Lease No

Is location a regular or exception to spacing rule? Regular Has a surety bond been filed? Yes With whom? Federal Area in drilling unit 160Ac
(State of Federal)

Elevation of ground above sea level is 4557.87 ft. All depth measurements taken from top of Derrick Floor which is 10 ft above ground
(Derrick Floor, Rotary Table or Kelley Bushing)

Type of tools to be used Rotary. Proposed drilling depth 5800 ft. Objective formation is Upper Paradox. Surface formation is the Jurassic Morrison formation.

PROPOSED CASING PROGRAM

Size of Casing Inches A.P.I.	Weight Per Foot	Grade and Type	Amount Ft. In.	Top	Bottom	Cementing	Depths
10-3/4"	40#	J-55	1150	Surf.	1150	1150	
7"			Depends on production & testing.				

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.

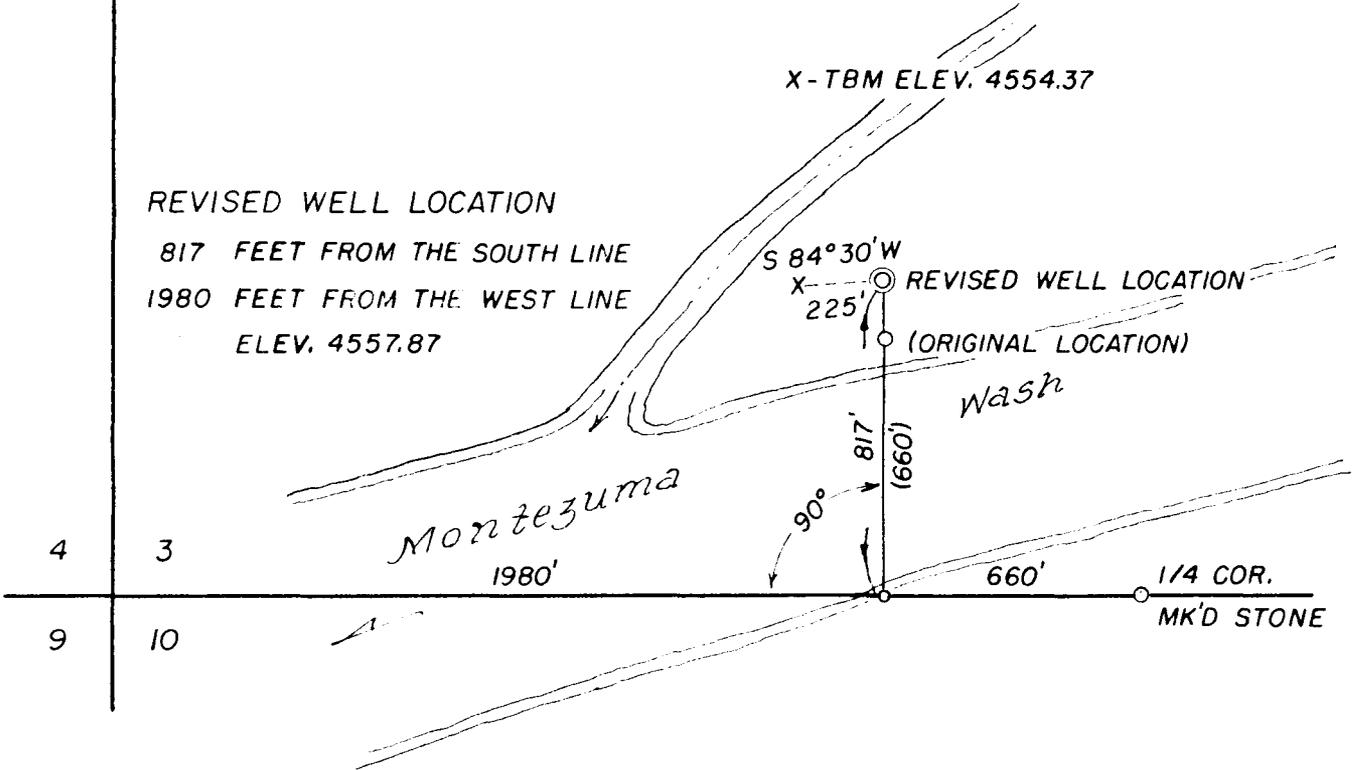
Approved for regular location
Date March 7 19 57
By Don B. Feight
Title Secretary

By Erwin W. Clark
Development Geologist
(Title or Position)
Standard Oil Company of California
(Company or Operator)
Address P.O. Box 1076
Salt Lake City, Utah

INSTRUCTIONS:

1. Complete this form in duplicate and mail both copies to the Oil and Gas Conservation Commission, Rm 105, Capitol Bldg, Salt Lake City 14, Utah.
2. A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.
3. Any information required by this form that cannot be furnished at the time said form is submitted must be forwarded to the commission as soon as available.
4. Use back of form for remarks.

TRACT NO.177 NAVAJO INDIAN RESERVATION, UTAH.



REVISED WELL LOCATION

817 FEET FROM THE SOUTH LINE
1980 FEET FROM THE WEST LINE
ELEV. 4557.87

X-TBM ELEV. 4554.37

S 84°30'W
X 225'

REVISED WELL LOCATION

(ORIGINAL LOCATION)

Wash

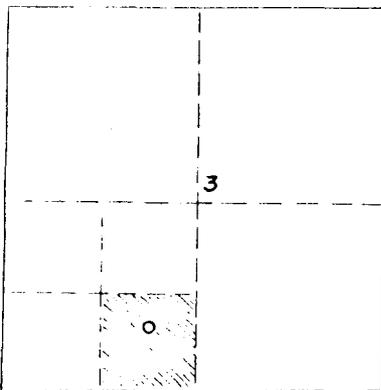
Montezuma
1980'

660'

1/4 COR.

MK'D STONE

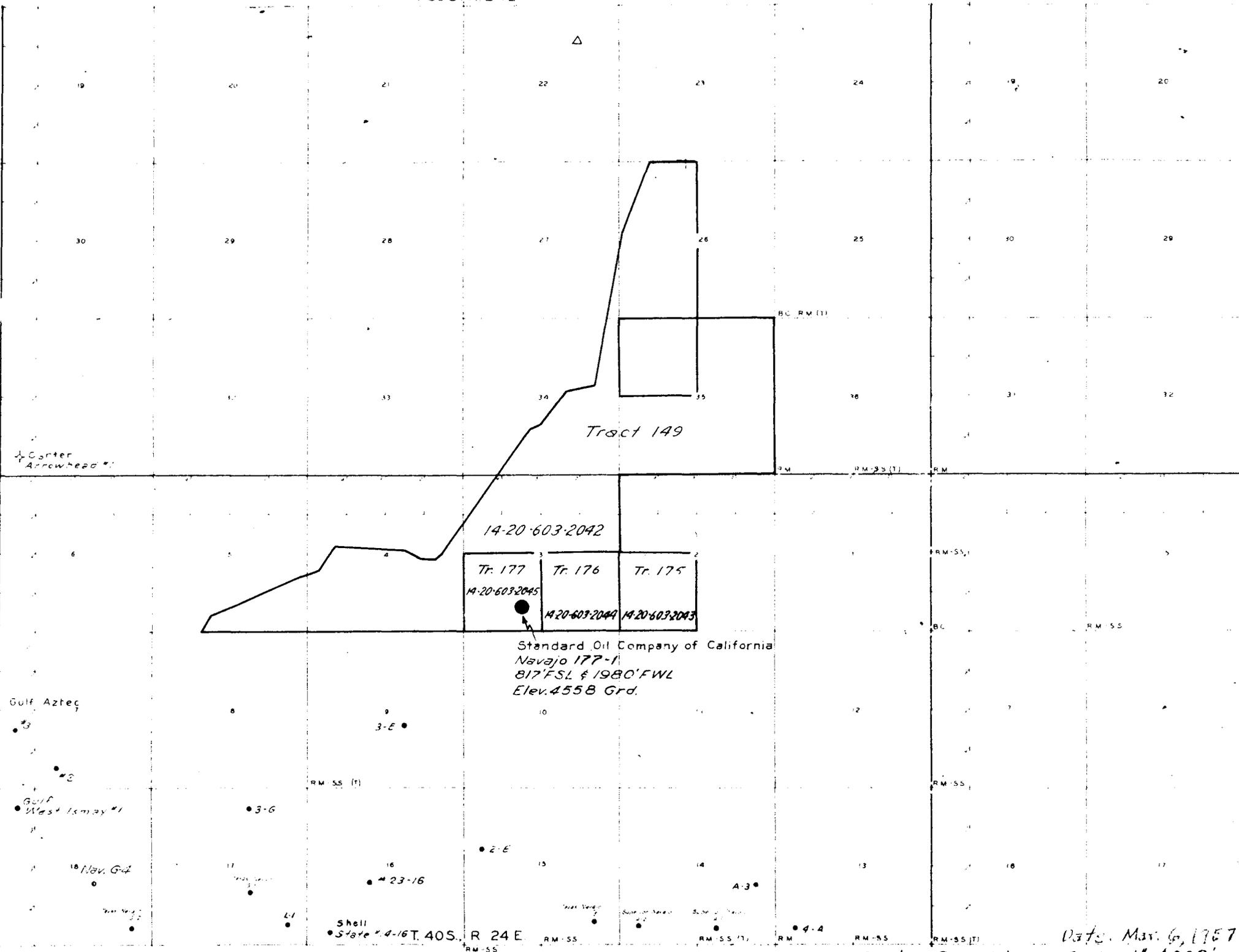
4 3
9 10



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.

James P. Lebbe
JAMES P. LEBBE
REGISTERED SURVEYOR
REG. NO. 1472 UTAH

STANDARD OIL CO. OF CALIFORNIA	
WELL LOCATION SE 1/4 SW 1/4 SECTION 3 T40S R24E SLBM SAN JUAN COUNTY UTAH	
FEBRUARY 27, 1957	SCALE: 1" = 500'
DRAWN BY W.C.	
SAN JUAN ENGINEERING CO. FARMINGTON N.M.	



Tract 149

14-20-603-2042

Tr. 177 14-20-603-2045	Tr. 176 14-20-603-2044	Tr. 175 14-20-603-2043
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Standard Oil Company of California
Navajo 177-1
817' FSL & 1980' FWL
Elev. 4558 Grd.

Carter Arrowhead #1

Gulf Aztec #3

Gulf West Leman #1

Nav. G-4

Shell State #4-16T. 40S., R 24 E

Son Juan Co., Utah

Date: Mar. 6, 1957
Scale: 1" = 4000'

March 7, 1957

Standard Oil Company of California
P. O. Box 1076
Salt Lake City, Utah

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo 177-1, which is to be located 817 feet from the south line and 1980 feet from the west line of Section 3, Township 40 South, Range 24 East, SLRM, San Juan County.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT
SECRETARY

CBF:en

cc: Phil McGrath
USGS, FARMINGTON,
New Mexico

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Alotted
Henry of Dade, John
Hickman, et al.
Allottee X-20-603-205
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.....	X
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)

April 1

19 57

Well No. Navajo / 177-1 is located 817 ft. from NE line and 1980 ft. from NE line of sec. 3
SE SW Sec. 3 408 2 1/2 N SL

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the Ground derrieck floor above sea level is 4558 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)

Spudded March 22, 1957 at 4:00 P.M.
Cemented 10-1/4", 40-lb., J-55 Casing at 1203' with 1400 sacks cement.

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

STANDARD OIL COMPANY OF CALIFORNIA

Company P.O. Box 1076

Address Salt Lake City, Utah

Attn: W. P. Winham, Division Supt.

By Carroll Clark
Development Geologist

Title _____

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allotted
Heirs of Dade, John
Allottee Dishface, et al
Lease No. 14-20-603-2045

	3		
	o		

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.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		Supplementary report of Suspended Well	X

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

May 20, 19 57

Well No. 177-1 is located 817 ft. from NS line and 1980 ft. from W line of sec. 3

<u>SE SW Sec. 3</u> <small>(¼ Sec. and Sec. No.)</small>	<u>40S</u> <small>(Twp.)</small>	<u>24E</u> <small>(Range)</small>	<u>SLEM</u> <small>(Meridian)</small>
<u>Aneth (Outpost)</u> <small>(Field)</small>	<u>San Juan County</u> <small>(County or Subdivision)</small>		<u>Utah</u> <small>(State or Territory)</small>

The elevation of the derrick floor above sea level is 4572 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)

T.D. 5735'. Casing: 10-3/4" @ 1203'. Well suspended May 20, 1957.
Plugged interval 5350 to 5735' with 200 sacks cement.
Plugged interval 2550 to 2700' with 150 sacks cement.
Plugged interval 1000 to 1225' with 125 sacks cement.
Plugged interval 15 to 40' with 25 sacks cement.
Bolted 1/2" steel plate on casing head. Filled in sump. Will clean up location after rig moves out.
Plan to carry well as suspended for perhaps a year's time.

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

Company STANDARD OIL COMPANY OF CALIFORNIA

Address P.O. Box 1076

Salt Lake City 10, Utah

By [Signature]

Title Development Geologist

14

Form 9-380 R.24E.

Window Rock, Ariz.

U. S. LAND OFFICE

SERIAL NUMBER

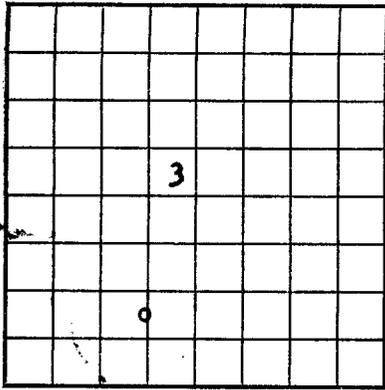
LEASE OR PERMIT TO PROSPECT
 14-20-603-2045, Navajo
 Indian Allotted Land

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Notes
6/5/51



T.
40
S

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Standard Oil Co. of California Address P.O. Box 1076, Salt Lake City, Utah

Lessor or Tract Navajo Block 177 Field Outpost Aneth State Utah

Well No. 177-1 Sec. 3 T. 40S R. 24E Meridian SLM County San Juan

Location 817 ft. (N.) of S Line and 1980 ft. (E.) of W Line of Sec. 3, 40S, 24E Elevation 4572
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed *Erwin W. Clark*

Date May 27, 1957

Title Development Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling March 22, 1957 Finished drilling May 15, 1957.
 Well Suspended May 20, 1957.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

- *No. 1, from 5431' to 5437' No. 4, from _____ to _____
- *No. 2, from 5497' to 5499½' No. 5, from _____ to _____
- No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

- **No. 1, from 400' to 1100' No. 3, from _____ to _____
- No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From--	To--	
10-3/4"	40.5	8 rd.	J & L	1203	Baker	---	--	--	Surface

HISTORY OF OIL OR GAS WELL

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4"	1203	1400	Displacement	--	--

PLUGS AND ADAPTERS refer to section "History of oil or gas well" on back of this sheet.

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

Heaving plug—Material Length Depth set
Adapters—Material Size

SHOOTING RECORD

Table with 7 columns: Size, Shell used, Explosive used, Quantity, Date, Depth shot, Depth cleaned out.

TOOLS USED

Rotary tools were used from 0 feet to 5735 feet, and from -- feet to -- feet
Cable tools were used from -- feet to -- feet, and from -- feet to -- feet

DATES

....., 19..... Put to producing, 19.....
The production for the first 24 hours was barrels of fluid of which % was oil; % emulsion; % water; and % sediment. Gravity, °Bé.
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

Roy Thompson Driller A. L. Gahenby Driller
Don D. Schaub Driller Lloyd Havens ~~Driller~~
Contract Tool Pusher

FORMATION RECORD

Table with 4 columns: FROM—, TO—, TOTAL FEET, FORMATION. Includes text: *Possible oil zone but no show on formation test of these intervals. **Well flowed fresh water from this interval for a short time while drilling surface hole.

Radioactive Log Tops
Morrison Surface
Glen Canyon 680'
Chinle 1470'
Shinarump 2345'
Moenkopi 2400'
Hoskins 2497'
DeChelly 2594'
Organ Rock 2660'
Cedar Mesa 3318'
Hermosa 4490'
Bluff Zone 5360'
Desert Creek Zone 5538'
Paradox Evaporite Facies 5695'
(Over)

(OVER)

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
0'	15'	15	Sand-loose, gray to buff.
15	80	65	Shale & sandstone-shale, gray to green-gray, silty to sandy - Sandstone, light gray to buff, medium grained.
80	170	90	Siltstone & shale - gray to gray-green.
170	225	55	Sandstone - light gray to buff.
225	270	45	Shale - gray-green, mottled red, silty,
270	500	230	Sandstone - buff, firm, fine to medium grained.
500	530	30	Shale - red-brown, silty.
530	650	120	Interbedded sandstone & siltstone - red-brown, gray-green, fine grained, silty.
650	680	30	Shale, red-brown, locally silty streaks.
680	1170	790	Sandstone, buff, fine to coarse grained, rounded to subrounded, locally pink & cream colored.
1170	1500	30	Siltstone - red-brown to brick red, shaly to sandy.

For balance of formation refer to enclosed litholog, and detailed core descriptions.

REPRODUCTION OF THIS RECORD IS PROHIBITED WITHOUT THE WRITTEN PERMISSION OF THE BUREAU OF LAND MANAGEMENT

DATE	LOG	LOG NUMBER	FORMATION
FORMATION RECORD			
EMPLOYEES			
DATES			
TOOLS USED			
SHOOTING RECORD			

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Plugged interval 5350-5735' with 200 sacks cement.
Plugged interval 2550-2700 with 150 sacks cement.
Plugged interval 1000-1225 with 125 sacks cement.
Plugged interval 15-40 with 25 sacks cement.

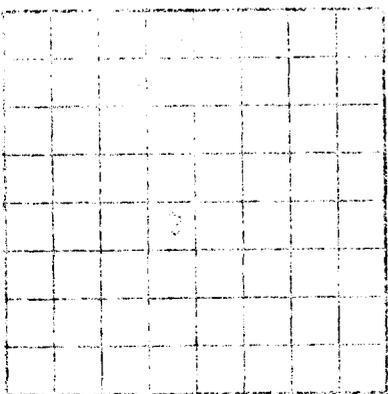
INDUSTRIAL WATER SANDS

Table with 4 columns: No. of hole, Depth, and other data. The text is mostly illegible due to heavy noise and bleed-through.

OIL OR GAS SANDS OR ZONES

Completed drilling... The information given on this page is for the use of the well at above date... The information given on this page is a summary and correct record of the work done on this well...

LOG OF OIL OR GAS WELL



GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

PLEASE OR DIRECT TO PROJECT
SERIAL NUMBER
U. S. BUREAU OFFICE

JUN 4 1977

COMPLETION REPORT - NAVAJO WELL
STANDARD OIL COMPANY OF CALIFORNIA

FIELD: Aneth

PROPERTY: Section 3

WELL NO: Navajo 177-1

Sec. 3 T. 40S R. 24E SE B. & M.

LOCATION:

LAND OFFICE: Salt Lake City

Lease No.: Dishface, et al

14-20-603-2045

K. B. is 12.3' above G.M.

ELEVATION: 4576' H.B.

DATE: May 27, 1957

By: J. T. [Signature]
Manager, Producing Department

DRILLED BY: Moran Brothers Drilling Company

DATE COMMENCED DRILLING: March 22, 1957

DATE SUSPENDED: May 20, 1957

DATE OF INITIAL PRODUCTION:

PRODUCTION:	Daily average, 1st _____ days	Gravity _____ ° API	Pumping _____
	Oil Bbls.	T. P. _____ PSI	Flowing _____
	Water Bbls.	C. P. _____ PSI	Gas Lift _____
	Gas Mcf.	Beam _____ /64"	

S U M M A R Y

TOTAL DEPTH: 5735'

CASING: 16" conductor cem @ 40'
10 3/4", 40-5#, J-55, Smits, R-3, 8rd ST&G cem @ 1203'

LOGS RUN: Schlumberger E log - Induction 1203 - 5735'
Schlumberger Gamma Ray-Neutron 1203 - 5735'
Schlumberger Micro-log 1203 - 5735'

DRILL STEM TESTS:

MARKERS

#1 - 5415 - 5579'
#2 - 5543 - 5579'
#3 - 5542 - 5562'
#4 - 5616 - 5626'
#5 - 5612 - 5622'
#6 - 5426 - 5500'
#7 - 5426 - 5500'
#8 - 5593 - 5607'

Top of Shinarump 2561'
Top of Mcen Kopf 2649'
Top of Cutter 2759'
Top of Hermosa 4500'
Top of Paradox "A" Shale 5332'
Top of Paradox "B" Shale 5512 1/2'

WELL NO.: Navajo 177-1

PROPERTY: Section 3

ANUTH FIELD

Core #5 - 5428 - 5467', Rec 49'
 12' brn ls; 9' partly porous ls containing some bleeding oil; 5½' gry ls

Core #6 - 5467 - 5473', Rec 4'
 4' drk brn gry sh

 May 3, 1947

DST #1 - JFT of interval 5415 - 5473'.

Ran Johnston hydraulic tester w/single bob tail packer (7½) Bowen hydraulic jars and safety sub two recorders and knockout type reverse circulating tool. Packer set @ 5415'. No cushion. Opened packer @ 5:45 a.m., very light blow for 5 min. SI @ 6:05 a.m. Total fluid rise 375', very slt gas cut mud. Charts indicated good test.

Core #7 - 5473 - 5520', Rec 39'
 5473 - 5497 - drk brn gry ls, hd & ti
 5497 - 5499½ - ls w/ti frac, low por w/some bleeding oil
 5499½ - 5512½ - ls, med to dk brn gry,

5512½ - 5512½ - blk sh
 5512½ - 5520 - no recovery
 Top Paradox "B" shale 5512½'

Core #8 - 5520 - 5565', Rec 53'
 5512 - 5520 - Rec 8' pickup from Core #7
 5512 - 5541 - blk sh, hd "B" sh;
 5541 - 5545 - dk gry brn calc, hd sh;
 5545 - 5549½ - ls, dk brn gry, shly, hd, good oil odor, no oil;
 5549½ - 5564 - ls, brn oil stn'd, shly, good intergranular por, good oil odor, bleeding very small amounts of light oil @ several points
 5564 - 5565 - blk sh, hd, oil in bleeding planes & frac

Core #9 - 5565 - 5603', Rec 21'

DST #2 - JFT of interval 5543 - 5579'.

Straddle test using Johnston hydraulic tester w/2 bob tail packers, Bowen hydraulic jars & safety jt, 3 recorders and reverse circulating tool. Opened tester @ 6:38 a.m., closed @ 8:23 a.m., 30 min SI pressure. Light to fair blow, steady throughout test. No gas to surface, no cushion. Fluid rise 163'. Rec 180' gas cut mud, 1453' salt water. IH - 3255; FH - 3200; IF - 135; FP - 805; SI - 1665.

DST #3 - JFT of interval 5542 - 5562'.

Straddle test using Johnston hydraulic tester w/2 bob tail packers, Bowen hydraulic jars and safety jt., 3 recorders and reverse circulating tool. No cushion. Tester open 1 hr, SI 30 min. Fair to steady blow throughout test. No gas to surface. Net rise 815' - 120' gas cut watery mud, 695' salt water. IH - 3115; FH - 3115; IF - 135, FP - 495, SI - 1735. Water sample 125,000 ppm.

Core #10 - 5603 - 5642', Rec 34½'
 5603 - 5613½ - dolo, ti frac, fair odor
 5613½ - 5614½ - blk sh
 5614½ - 5616½ - ls, some por
 5616½ - 5625½ - oil stn'd ls, good perm, very slty taste, very good odor, no vis oil

WELL NO: Hermit 17-1

FORMATION: Section 3

ANETH FIELD

WORK DONE

0' - 40' 16" conductor - March 21, 1957.

Spudded 4:00 P.M. - March 22, 1957.

Drilled 11" hole, water drilling fluid.

March 26, 1957

Reamed 15" to 1206'. Set 10 3/4" casing @ 1203' equipped w/Baker float collar and guide shoe. Cemented 1400 sacks of Ideal Portland cement w/2 1/2% CA CL₂ & 1/4# of Floccula per sack, 14-30#/gal. slurry weight, using 180 bbls of water, one top plug and one bottom plug. Pumped in 75 bbls of gel mud w/300# of fiber seal ahead of cement. Used Halliburton cementing head and Halliburton power equipment. While attempting to displace cement from casing with top plug, cementing head blew out with 1700 psi. After putting on new cementing head, cement could not be displaced with 2000 psi. Good circulation while pumping in cement with a little cement returns.

Detail:

Ran 29 joints & 1 pup joint, set pipe @ 1203', 10 3/4", 40.5#, J-55, 2mls, 8rd, T&C. 3 centralizers located @ 1114, 1071 and 1030. 3 Halliburton cement baskets located @ 121, 24' and 368.

March 27, 1957

Re-cemented around 10 3/4" surface pipe and 16" conductor w/100 sacks Portland cement. Stood cemented 2 1/2 hours. Installed Class III B.O.E. after drilling out cement (40-1000').

March 30, 1957

Tested B.O.E. Hydril, pipe rams and complete shut off to 1200 psi for 30 min, then drilled out float collar and guide shoe - 333h".

April 26, 1957

Core #1 - 5250 - 5291', Rec 41'
Top 32' brn calc ls, 9' med brn ls, 1' dip, no por, no oil

Core #2 - 5291 - 5398', Rec 57'
1' brn ls; 6 1/2' dk brn gry sh; 35' brn ls, 14 1/2' dk gry sh; very poor por,
1/2 to 2° dips
Top of Paradox "A" shale 5322'

Core #3 - 5348 - 5365'
17' drk gry sh; 2' blk sh; 28' med dk brn ls, 7 1/2' massive, very hd & ti,

Core #4 - 5395 - 5418', Rec 21'
21' ls, med brn, locally dolomitic, no por; 2' no rec.

WELL NO: Kwajo 177-1

PROPERTY: Section 3

ANETH FIELD

Core #10 (cont'd)

5525 $\frac{1}{2}$ - 5628 $\frac{1}{2}$ - ls, minor perm, poor odor
 5628 $\frac{1}{2}$ - 5637 $\frac{1}{2}$ - dolo, poor por
 5637 $\frac{1}{2}$ - 5642 - no recovery

Core #11 - 5642 - 5685^oDST #4 - JFT of interval 5616-5626^o.

Straddle test using Johnston hydraulic tester w/2 bob tail packers, Bowen hydraulic jars and safety; 3 recorders and reverse sleeve type circulating tool. Gas to surface 13 min; fair to good to strong blow for 10 min, then decreased to good blow throughout test. Charts indicated plugging. Test misrun. IH = 3350, FH = 3240, IF = 955, FF = 1010, SI = 2315.

DST #5 - JFT of interval 5612 - 5622^o.

Using Johnston hydraulic tester, straddle test w/2 bob tail packers on top, 1 on bottom. Bowen hydraulic jars and safety jt, 3 recorders and reverse circulating tool. Gas to surface in 10 min, increasing to fair to moderate for 45 min, then decreasing to blow/surges to moderate throughout remainder of test. Rec fluid lost rate 1 BFH; 5% oil and 95% water. Charts indicated good test. IH = 3210; FH = 3210; IF = 210; FF = 1465; SI = 2225.

Core #12 - 5696 - 5735^o

5696 - 5697 - shale, blk, dips $\frac{1}{2}$ ^o
 5697 - 5699 - sh, dk gry calc, massive, hd
 5699 - 5702 $\frac{1}{2}$ - dolo, dk gry, shly, lt oil bleeding from horizontal partings 5700-01
 5702 $\frac{1}{2}$ - 5705 $\frac{1}{2}$ - sh, dk gry, calc
 5705 $\frac{1}{2}$ - 5708 - ls, dk brn gry, very shaley w/good flour in body of rock
 5708 - 5711 - Anhydrite & sh, interlam'd & marbled, fair to good flour in body of rock
 5711 - 5718 - Sh, dk gry w/oil in vert fractures

DST #6 - JFT of interval 5426 - 5500^o.

Straddle test w/3 bob tail packers, 3 recorders, Bowen hydraulic jars & safety jt and reverse circulating tool. Set pkrs @ 8:57, opened tester @ 9:00 a.m. Weak to light blow for 30 min, decreasing to weak blow again. Closed tester @ 11:30 a.m. for 30 min SI. Rec 2430^o gas out watery mud. Bottom pkr failed. Test a misrun.

DST #7 - JFT of interval 5426 - 5500^o.

Straddle test. 311 blow for $\frac{1}{4}$ min then dead for remainder of test. Rec 185^o drilling fluid. Charts indicated good test. IH = 2840; IF=90; FF=90; SI=145; FH=2840
 Bottoms: 3250 120 120 170 3250

DST #8 - JFT of interval 5593 - 5607^o.

Straddle test using two pkrs. Opened tool @ 4:05 a.m., very weak blow for 7 min then dead for remainder of test. Closed 5:25 a.m. 30 min SI. Rec 50^o drlg fluid. Lower chart showed partly plugged for 30 min, then good for remainder of test. IH = 3150; IF = 0; FF = 0; SI = 1675; FH = 3105

May 20, 1957

Plugged as follows:

WELL NO: Nevada 171-1

PROPERTY: Section 3

ANETH FIELD

5350 - 5725 = Mixed 200 sacks cement, displaced w/75 bbls.
2550 - 2700 = Mixed 150 sack cement, displaced w/30 bbls
1000 - 1220 = Mixed 125 sack cement, displaced w/1 1/2 bbls
15 - 40 = Mixed 25 sack cement, displaced w/2 bbls.

Rig released @ 8:00 A.M. May 20, 1957

Well operations suspended.

C. N. MERRIE

STANDARD OIL CO. OF CALIFORNIA

NAVAJO 177-1

C/SE/SW

3-40S-24E., San Juan County, Utah

Core #1: 5250-5282½' (32½') Shale.

first 12½' shale, dark gray, calcareous, massive except locally laminated with brown limestone, hard, tight. Abundant very fine calcite crystals toward base. Good dip 1°.

next 2½' shale, dark gray, as above. Abundant crinoids and common brachiopods. Rare porosity in fossils.

next 3' shale, dark gray, as above; very calcareous; no fossils. Rare filled vertical fractures.

next 1½' shale, dark gray, as above, with common lenses of siltstone, medium gray, calcareous, hard, tight.

next 2' shale, dark gray, as above; slightly calcareous. next 4' shale, black very slightly calcareous; breaks easily in "poker chips" ¼ to 2" thick; fracture partly conchoidal.

next 3' shale, black, as at 5250' ff: calcareous, very fossiliferous. Grades to brown limestone, fractured open in four-inch section; no OSCF.

next 4' Shale, black as above. Grades down from very slightly calcareous "poker chip" to massive (except abundant incipient fractures) slightly calcareous, fossiliferous.

5282½-5291' (8½') Limestone, medium brown, micro-crystalline, massive, hard tight. Rare possible fossils, very rare vugs 1/16" diameter. Shaly with abundant fossils in six-inch section at 5290'; Vertical fracture at 5290-91' tight but not sealed.

Note: the bottom foot of Core #1 is limestone as above.

CORE #2: 5291-5292' (1') Limestone, medium brown, micro crystalline, massive, hard, tight.

5292-5298½' (6½') Shale, dark brown-gray, very calcareous, grading to shaly limestone, massive, hard, tight; common interlaminated limestone as above.

5298½-5333½' (35') Limestone as above, generally not fossiliferous but with locally common brachiopods and very abundant crinoid stems. Rare vertical fractures (open) and horizontal shale partings and/or stylolites. No OSCF.

5333½-5348' (14½') Shale, dark gray, slightly calcareous, massive, hard, tight. Locally abundant crinoid stems and brachiopods; fetid odor at 5334' & 5337'; no porosity, no stain, cut, fluorescence. Very poor dips 1/2 - 2°.

Core #3: 5348-5364' (16') SHALE, dark gray, calcareous, rare gypsum, slightly micaceous, looks massive but breaks in 1-2" beds, partly conchoidal fracture, hard, tight. Common to very abundant brachiopods. Poor 1/2 - 2° dips. No OSGF.

5364-5366' (2') SHALE, black, slightly calcareous, very thin bedded (1/2" ±), firm, tends to exfoliate.

5366-5395' (29') LIMESTONE, medium to dark brown, part dark brown-gray, slightly shaly, locally very shaly to calcareous shale as at 5374-76', micro-crystalline, slightly fossiliferous throughout, common stylolites, rare vugs partly calcite-filled, a few tight unsealed fractures 5370-71', 5385-87'. Generally massive, hard, tight. Bottom 7 1/2' massive, very hard, tight.

Core #4: 5395-5416' (21') Limestone, medium brown locally dolomitic grading to calcareous dolomite at 5416'; generally fine crystalline with part micro crystalline, locally micro crystalline. Common stylolites. 2" black shale bed at 5411' rests on uneven erosional ? surface. Shale shows slickensides down 25° ± surface. Rock is generally massive, hard to very hard, tight. No dips. No OSGF. 5416-5418' (2') no recovery.

Core #5: 5418-20' (2') Limestone, medium brown-gray, microcrystalline; abundant calcite-filled fine to coarse random fractures; hard, tight and good petroleum odor, No OSGF.

5420-21 1/2' (1 1/2') Limestone, medium gray-brown, possibly dolomitic, shaly, slightly silty, finely crystalline; probable intergranular porosity gives dull silty appearance; massive except common filled fractures as above, and one open fracture; firm, tight (matrix); good petroleum odor, possible good brown oil stain, no cut or fluorescence.

5421 1/2-30' (8 1/2') Limestone, dark gray, part dark brown-gray, slightly shaly, microcrystalline, hard, tight, closely spaced incipient and calcite-filled fractures especially at 5423-24'; abundant crinoids and fossil fragments; very abundant fusilinids 5425-30'. Good petroleum odor; no stain, cut, fluorescence.

5430-39' (9') Oil Limestone, medium brown, microcrystalline, hard; common pinpoint porosity; abundant vugs, partly calcite-filled, completely filled and tight 5434-35' & 38-39', elsewhere partly open. Vugs and pores bleed light oil, gassy, light yellow-green; good petroleum odor, light tan cut.

5439-57' (18') Limestone, dark brown-gray, medium brown & very fossiliferous 5454-57', partly shaly, microcrystalline, massive hard, tight except closely fractured and mud-washed 5349-50'. Abundant brachiopods, crinoid stems and fusilinids throughout. Very abundant algae 5439-40'. Shale breaks 5440-41'. Faint petroleum odor throughout; possible brown oil stain 5455-57'.

5457-58 1/2' (1 1/2') Limestone as above, with pinpoint pores bleeding light yellow-green oil; brown oil stain, good petroleum odor; very limited porosity and permeability.

CORE #5: 5418-20' (2') limestone. Medium brown-gray, microcrystalline; abundant calcite-filled fine to coarse random fractures; hard, tight good petroleum odor, No stain, color or fluorescence.
5420-21½' (1½') limestone medium gray-brown, possibly dolomitic, shaly, slightly silty, finely crystalline; probable intergranular porosity gives dull silty appearance; massive except common filled fractures as above, and one open fracture; firm, tight (matrix); good petroleum odor, possible good brown oil stain, no cut or fluorescence.
5421½-30' (8½') limestone, dark gray, part dark brown-gray, slightly shaly, microcrystalline, hard, tight, closely spaced incipient and calcite-filled fractures especially at 5423-24'; abundant crinoids and fossil fragments; very abundant fusilinids 5425-30'. Good petroleum odor; no stain, cut, fluorescence.
5430-39' (9') Oil Limestone, medium brown, microcrystalline, hard; common pinpoint porosity; abundant vugs, partly calcite-filled, completely filled and tight 5434-35' and 38-39', elsewhere partly open. Vugs and pores bled light oil, gassy, light yellow-green; good petroleum odor, light tan cut.
5439-57' (18') Limestone, dark brown-gray, medium brown and very fossiliferous 5454-57', partly shaly, microcrystalline, massive, hard, tight except closely fractured and mud-washed 5349-50'. Abundant brachiopods, crinoid stems and fusilinids throughout. Very abundant algae petroleum odor throughout; possible brown oil stain 5455-57'.
5457-58½' (1½') Limestone as above, with pinpoint pores bleeding light yellow-green oil, brown oil stain, good petroleum odor; very limited porosity and permeability.
5458½-67' (8½') Limestone as at 5439-57, fossils common to rare. Very dark brown chert nodules at 5465-67', with chalcopyrite inclusions in the chert. Abundant incipient vertical fractures 5464-65'. Fair petroleum odor throughout. Entire interval 5430-38' sampled out for core analysis.

CORE #6: 5467-71' (4') Shale, dark brown gray, very calcareous to shaly limestone, massive, hard, tight. Fair petroleum odor. Rare tight oil-stained fractures with bright yellow fluorescence.
5471-73' (2') No Recovery. Shale break in top foot of core does not fit rocks next below. Missing section may be black shale 5476½-69½'.

Navajo #177-1
3-40S-24E
SE SW
SAN JUAN COUNTY, UTAH

CORE #7: 5473-84' (11') Limestone, dark brown gray, very shaly to calcareous shale, fine crystalline with part microcrystalline, locally mottled with medium crystalline brown calcite below 5477'; massive, hard, tight, rare tight and incipient fractures; rare streaks of gypsum; chert, dark black-brown in two-inch bed at 5477'; Limestone has fair petroleum odor; no stain, color or fluorescence.

5484-85' (1') Shale, black, powders dark brown, fractured to pieces, thin bedded to fissile, conchoidal fracture, slickensides.

5485-85½' (½') Limestone as above, with small chert nodules and a thin chert bed; tight, oily fractures.

5485½-88' (2½') Limestone as above, medium gray-brown, common incipient, tight, and/or filled fractures. Abundant crinoids. Good odor, no stain, color or fluorescence.

5488-89-¾' (1-¾') Shale, black, micromicaceous, very slightly calcareous, laminated; random fractures.

5489-¾-96½' (6-¾') Limestone, medium to dark gray-brown, very sandy to fine sandstone with calcite interstices, hard, tight, massive; rare stylolites; shaly streaks 5492-93'; locally very coarse crystalline limestone with rare light brown chert. No odor, stain, color or fluorescence.

5497-99½' (2½') Oil Limestone, dark brown oil stained, microcrystalline with part fine to medium crystalline; abundant pin-point porosity, common tight fractures, one open fracture, rare calcite-filled vugs; hard, probably low porosity and permeability. Light yellow-green oil bleeding slowly from half (?) the pores and fractures. Good petroleum odor.

5499½-5512¼' (12-¾') Limestone, medium brown, becoming medium to dark gray-brown and very shaly and silty below 5507'; microcrystalline; hard, massive, tight; abundant brachiopods mostly ¼" ± and very abundant fusilinids above 5506'; rare stylolites; good petroleum odor, very rare possibly oily fractures.

5512¼-12½' (¼') Black Shale ("B" shale)

5512½-20' (7½') No Recovery (Core #8 recovered an extra 7½' of black shale at the top, which came from this interval.)

5497-99½' sampled out for core analysis.

CORE #8: 5512½-40-3/4' (28½') Shale, black, slightly calcareous, hard; looks massive but breaks in beds ¼-2"; closely fractured and slickensided 5538-39'. Poor dips nearly flat. Fair petroleum odor.

5540-3/4-45¼ (4½') Shale, dark gray-brown, calcareous; laminated with black shale in top two feet. Minor faulting during consolidation; one inch oil stained 5542-3/4-43', no porosity.

5545¼-49½' (4¼') Limestone, dark brown-gray, shaly, very fine and micro-crystalline, rarely medium crystalline as possible fracture filling; hard, tight, massive except stylolites one to four per inch; good petroleum odor, no fluorescence.

5549½-63-3/4' (14¼') Oil stained calcarenite limestone, dark brown oil stained (except total of two feet barren at 5555'±, and 5560', 5562', 5563'), shaly, calcite cemented, rare tight fractures partly calcite cemented, poor pinpoint porosity, good intergranular porosity (5-10%?); bled very small amounts of light yellow-green oil at numerous points, good petroleum odor throughout, completely oil stained (except 2' barren), mottled (50%±) light yellow fluorescence in matrix, collarless cut fluorescent yellow-white.

5563-3/4-65' (1½') Shale, black, very slightly calcareous, hard, thin-bedded, abundant fractures; oil in bedding planes and fractures, good petroleum odor, good yellow silver fluorescence.

Samples for core analysis 5549-63½'.

CORE #9: 5565-73' (8') Shale, black, very calcareous to slightly calcareous and very cherty, to black chert. Partly laminated with siltstone, dark gray to brown oil-stained, shaly, hard; common fractures; fractured to pieces 5567-68'; 5572-73' Oil on some fracture faces and bedding planes, and partly in the body of the rock; bright white-yellow fluorescence; fair to good petroleum odor.

5573-83' (10') Dolomite, medium gray-brown becoming medium brown in lower part, very calcareous, shaly; very fine to microcrystalline; hard, tight. Rare tight fractures except fractured to pieces 5576-76-3/4', 5581-83'. Common light oil oozing from fracs and bedding planes; good white-yellow fluorescence in body of the rock, and on fractures and bedding planes where it is weakened locally by salt water with the oil. Good petroleum odor throughout.

5583-84' (1') Shale, dark gray, silty, very calcareous, hard, massive, tight, faint petroleum odor, no stain, cut or fluorescence.

5584-86' (2') Limestone, medium to dark brown, dolomitic, shaly, microcrystalline; suggestion of microscopic sugary texture; common fractures, partly dolomite filled; very weak petroleum odor and fluorescence; no oil in fractures.

5586-5603' (17') No Recovery.

#177-1 Navajo
(CONT.)

CORE #10: 5603 to 5642 feet, recovered 34½ feet; 10½' dolomite, shaly, medium to dark gray brown, common filled vugs, little to no petroleum odor; 1 foot shale, black, calcareous, silty; 2' limestone, medium brown, hard, massive and tight except for rare vugs. Rare hairline fractures. No stain or color; 9' limestone, dark gray, very fossiliferous, very good vugular porosity, good permeability, salty taste, good petroleum odor next to vugs, no cut or fluorescence, cut of black bluish oil lining vugs; 3' limestone, medium gray brown, brecciated, fine tight fracs, very poor odor. 9' dolomite, medium gray brown, brecciated, poor porosity and poor petroleum odor; 4½' no recovery.

DST #3 5542-62', straddle test. Tool open 1 hour, shut in 30 minutes, fair to steady blow throughout test. Recovered 120' gas cut water mud, 695' gas cut salt water, bottom hole temperature 133°. No pressures.

DST #4 5618-5628'. Tool open 57 minutes, shut in 30 minutes. Gas to surface in 13 minutes, fair to medium blow for 30 minutes, decreased to weak blow remainder of test. Recovered 180 feet of salt water slightly cut with oil and 2,050 feet gas cut mud. Mud leaked around packer, test considered mis-run.

DST #5 5612-5622', Open 3 hours 14 minutes, shut in 30 minutes. Opened with weak blow becoming moderate after 2 minutes, strong blow after 6 minutes, gas to surface after 9 minutes. Steady strong blow for 1 hour 11 minutes, decreasing moderate heading blow for 1 hour 43 minutes, fluid to surface after 1 hour 43 minutes consisting of gas and oil cut mud for 20 minutes and salt water with skim of oil for duration of test. Last 5 minutes turned into tanks with estimated 4 barrel per hour rate of 95% salt water 5% oil. IH 3210#, IF 210#, FF 1465, SIP 2225, FH 3210#. Gas rate guesstimated at 500,000 cubic feet/day prior to salt water entering drill pipe.

FOREIGN WELL DATA

COUNTY SAN JUAN, UTAH AREA _____
 COMPANY STANDARD OIL CO. OF CALIF.
 FARM Navajo WELL NO. 177-1
 SEC. 3 TWP. 40 S. RGE. 24 E.
 LOCATION SE SW, 817' FSL, 1980' FWL
 ELEV. 4558' Grd.
 REMARKS Proposed Depth: 5800' Paradox
Drilling Contractors: Moran Brothers, Inc.

FORMATION	SAMPLE	SCHL.
Chinle	1605	1470'
Shinarump	2561	2345
oenkopi	2649	2400'
Cutler	27592	2497'
Hermosa	4500'	4490'
Bluff Zone	5332'	5360-5510
Base "A" Zone	5366'	
Glen Canyon Gr.		680'
Base "A" Shale		5360'
"B" Shale		5510-5538'
Desert Creek Zone		5538-5670
"C" Shale		5670-5695
De Chelly		2594
Organ Rock		2660
Cedar Mesa		3319
Bluff Zone		5360-5510

Field _____
 Spud. 3-22-57
 Completed _____
 Abd. _____
 I. P. _____
 Prod. Formation _____
 Prod. Interval _____

CSG. RECORD		
SIZE	FEET	SACKS
10-3/4	1203	1400

DATE	
3-7-57	Grading location.
3-21-57	Preparing to spud.
3-28-57	Waiting on cement.
4-4-57	1714' repairing drawworks.
4-11-57	Present total depth 3460', making trip.
4-17-57	Drilling at 4402'.
4-25-57	Drilling at 5130' will commence coring at 5250'.
5-7-57	P.T.D. 5539' Coring.
	CORE #1: 5250-5291' recovered 41' limestone, no porosity.
	CORE #2: 5291-5348' recovered 57'; 1' brown limestone, 65' dark grey shale, 35' limestone, 14 1/2' grey shale

DATE	
	very poor porosity.
	CORE #3: 5348-5395' recovered 47'; 16' shale, dark grey, calcareous, micro micaceous, locally common brachs; 2' shale, black, thin bedded; 29' limestone, medium to dark brown, slightly shaly, micro crystalline slightly fossiliferous, few fractures, tight, no show.
	CORE #4: 5395-5418'. Recovered 23' limestone, brown grey, locally shaly, tight, no show.
	CORE descrip. (see attached sheet)
5-16-57	See attached sheets for Cores 7, 9, 10 and DST 3, 4, 5
5-23-57	Total depth 5735 feet. Suspended 5-20-57, rig released.
	DST #1: 5415-5473' - Open 15 minutes, shut in 10 min. Recovered 375' slightly gas-cut mud. IF 315, FF 315, SIP 340.
	DST #2: 5542-5578'. Open 1 hour 42 min. Shut in 30 min. Recovered 1633' fluid - top 200' mud slightly gas and salt water cut with trace of oil, balance 1433' salt water slightly gas cut. IF 135, FF 805, SIP 1665.
	DST #6: 5426-5500' - Tool open 2 1/2 hours, shut in 30 minutes. Recovered 2430' gas cut watery mud. Bottom packer failed.
	DST #7: (Straddle) 5426-5500' Tool open 1 hour, shut in 30 minutes. Immediate weak blow for 4 minutes then dead balance of test. Recovered 185' drilling fluid - no oil or water. IH 2840, FH 2840, IF 90, FF 90, SIP 145.
	DST #8: (Straddle) 5593-5607' - Open 1 hour, shut in 30 minutes. Immediate faint blow for 11 minutes, dead balance of test. Recovered 50' drilling fluid - no oil or water. IH 3150, FH 3105, IF 0, SIP 1675.
	CORE #11: 5642-85', Recovered 44'; 8' limestone, dark gray-brown, fine to microcrystalline, brecciated and filled with dolomite, massive. No odor, stain or cut; 5' dolomite, medium brown-gray, slightly calcareous, microcrystalline, dull luster, possible slight crystalline porosity, hard, massive, salt water from frac. No stain, cut or fluorescence; 12' dolomite, dark gray-brown, cherty, microcrystalline, common small dolomite 1/8" filled vugs, grades into chert nodules. Hairline fractures and pores bleeding salt water. No odor, stain, cut or fluorescence; 12' dolomite, medium to dark gray brown, shaly very fine crystalline, 66-73' fractures tight, very small pores and vugs 74'. Top 2' grading to shale. No odor, stain

FOREIGN WELL DATA

COUNTY SAN JUAN, UTAH AREA
 COMPANY STANDARD OIL CO. OF CALIF.
 FARM Navajo WELL NO. 177-1
 SEC. 3 TWP. 40 S RGE. 24 E.
 LOCATION SE SW, 817' FSL, 1980' F.W.L.
 ELEV. 4558' Grd.

DATE

DATE (CONT.)

or cut; 7' shale, black, calcareous, micromicaceous hard, partly massive, partly thin bedded, abundant gastropods, 1° dip.

CORE #12: 5696-5735' - Recovered 35'; 1' shale - black, firm, brittle, thin bedded to fissile 1/2° dip. Base "C" shale; 2' shale - dark gray, calcareous, massive hard; 3½' dolomite, dark brown, gray, shaly, finely crystalline, hard, massive, tight. Minor light oil bleeding from parting at 5701'; 2-3/4' shale - dark gray, calcareous, partly finely crystalline to calcarenaceous, hard, massive; 2½' limestone - dark brown-gray, shaly, very finely crystalline, hard, massive, tight, mottled with light yellow fluorescence, good petroleum odor in fluorescent section; 1½' limestone - dark brown, microcrystalline, no porosity, slightly open horizontal fractures and steep vertical fractures - fractures oil coated, good fluorescence and gassy odor in matrix; 2½' Anhydrite and shale - interlaminated and mottled - fair to good fluorescence in matrix 5709-11'; 7' shale - dark gray, firm, massive, mottled with anhydrite 5715½-18'. Free oil in vertical fractures 5717-18'. Good odor and fluorescence in patches; 10' Anhydrite - No stain, color, odor or fluorescence; 2¼' Halite; 5' No Recovery.

FINAL REPORT



STANDARD OIL COMPANY OF CALIFORNIA
WESTERN OPERATIONS, INC.

211 EAST THIRD SOUTH STREET • SALT LAKE CITY • UTAH

EXPLORATION DEPARTMENT
GREAT BASIN DIVISION
W. P. WINHAM
DIVISION SUPERINTENDENT

May 31, 1957

*Noted
CWD
6/5/57*

Oil & Gas Conservation Commission
Room 105
Capitol Building
Salt Lake City 14, Utah

Gentlemen:

In connection with our Navajo 177-1 well, we are enclosing form 9-330, Log of Oil or Gas Well, together with detailed core description and formation tests, Induction E-Log, Radioactive Log, Microlog, and Lithlog.

Very truly yours,

W. P. Winham
W. P. Winham

EWC/mgs

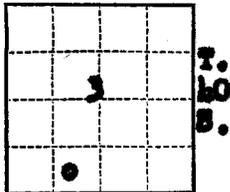
Encls.

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allotted Edra of Dads, John Dishface, et al.
Allotted 11-20-603-2015
Lease No. 11-20-603-2015



R.24E.

7/18
3-28

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.....	XX
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)

March 6, 19 58

Well No. 177-1 is located 817 ft. from S line and 1960 ft. from W line of sec. 3

SE SW Sec. 3 40S 24E S.L.B.M.
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Aneth (Outpost) San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4572 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)

T.D. 5735' Casing: 10-3/4" @ 1203'.

- Plugged interval 5350 to 5735' with 200 sacks cement.
- Plugged interval 2550 to 2700' with 150 sacks cement.
- Plugged interval 1000 to 1225' with 125 sacks cement.
- Plugged interval 15 to 40' with 25 sacks cement.

Bolted 1/2" steel plate on casing head. Filled in sump.

Appropriate location marker erected and location cleaned up.

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

Company STANDARD OIL COMPANY OF CALIFORNIA

Address P.O. Box 1076

Salt Lake City 10, Utah

By W. P. Winkham (Exec)

Title Division Superintendent

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