

FILE INDICATIONS

Entered in NID File ✓
 Entered on SR Sheet ✓
 Location Map Pinned ✓
 Card Indexed ✓
 IWR to State or Fee Land _____

Checked by Chief ✓
 Copy NID to Field Office ✓
 Approval Letter ✓
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 11-23-58
 CW _____ WW _____ TA _____
 EW _____ CS _____ PA X

Location Inspected _____
 Bond released _____
 State of Fee Land _____

LOGS FILED

Diller's Log 2-17-59

Electric Logs (No. 1 3)

E _____ L _____ EI (2) GR _____ GR-N (2) Micro (2)
 Lat _____ M-L _____ Sonic _____ Others _____

Sub Report added

- Scout Report sent out
- Noted in the NID File
- Location map pinned
- Approval or Disapproval Letter
- Date Completed, P. & A, or operations suspended _____
- Pin changed on location map
- Affidavit and Record of A & P
- Water Shut-Off Test
- Gas-Oil Ratio Test
- Well Log Filed

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-80-603-240

	17	
	X	

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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 6, 1958

Mole Hill
Well No. 3-17 is located 660 ft. from [S] line and 1900 ft. from [E] line of sec. 17

SE 17

(¼ Sec. and Sec. No.)

43E

(Twp.)

23E

(Range)

14N

(Meridian)

Wildcat

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the ~~derrick floor above sea level~~ is 4766 ft. (Approx. ground)

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)

Proposed Work:

1. Drill 12-1/4" hole to 1150'±.
2. Cement 8-5/8", 2 1/2" J-55 casing at 1150'± with 600 sacks cement (circulated).
3. Drill 7-7/8" hole to 5000'± (Paradox Salt)
4. If commercial production is obtained a supplementary completion notice will be issued.

Surface formation is Morrison

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

Company Shell Oil Company

Address 705 West Municipal Drive

Farmington, New Mexico

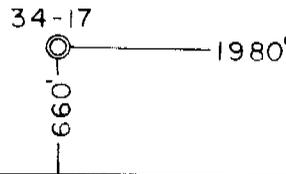
Original signed by
B. W. SHEPARD

By B. W. Shepard
Title Exploitation Engineer

Fd. Cor.

N 1°19'40"W 5281.9' (L.S. 1446)

Tr. 59
Sec. 17



Elev. Data:

T.B.M. 4818.3 1"X2" Hub N 21°-52'E 498.7'

Ungraded Ground 4786

This is to certify that the above plat was plotted from field notes of a survey made under my supervision, and that the same is true and correct to the best of my knowledge and belief.



Garth Baker
Registered Land Surveyor
Certificate 2158

DRAWN BY	<i>[Signature]</i>
CHECKED BY	
DATE	<i>10-1-1957</i>

SHELL OIL COMPANY

SCALE
<i>1" = 200'</i>

Location of Mole Hill No. 34-17
Section 17, Tract 59, T. 41 S., R. 23 E., S.L.B., San Juan County, Utah

October 8, 1958

Shell Oil Company
705 West Municipal Drive
Farmington, New Mexico

Attention: E. W. Shepard, Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Mole Hill 34-17, which is to be located 660 feet from the south line and 1980 feet from the east line of Section 17, Township 41 South, Range 23 East, S14E1, San Juan County, Utah.

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

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

GLENN B. FEIGHT
SECRETARY

CBF:co

cc: Phil McGrath
OCS, Farmington,
New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

ALLOTTEE Tribal Lands
TRIBE Navajo
LEASE NO. 14-20-603-210

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat - Mole Hill

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 19 58

Agent's address 705 West Municipal Drive Company Shell Oil Company

Farmington, New Mexico Signed _____

Phone Davis 5-8811 Agent's title Exploitation Engineer

Original signed by
SHEPARD

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
17 SW SE	41S	23E	34-17	-	-	-	-	-	-	Spudded 10-21-58. Drilling at 3892'.

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo
11-20-603-240
Allottee Tribal Lands
Lease No. _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

	17	
	X	

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	X
NOTICE OF INTENTION TO ABANDON WELL			

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

November 4, 19 58

Mole Hill
Well No. 11-17 is located 660 ft. from N line and 1980 ft. from W line of sec. 17

SE 17 41S 2E SLM
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the Kelly Bushing above sea level is 4799 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 12 Midnight 10-21-58
- 10-21-58 Ran and cemented (47h') 8-5/8", 2 1/2", J-55 casing at 486' with 200 sacks to Diamix followed by 100 sacks cement treated with 2% calcium chloride.
 - 10-22-58 Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, OK.

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

Company Shell Oil Company

Address 705 W. Municipal Drive
Farmington, New Mexico

Original signed by
B. W. SHEPARD
By _____
Title B. W. Shepard
Exploitation Engineer

W-

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

	17	
		X

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-210

SUNDRY NOTICES AND REPORTS ON WELLS

71-H
12-1-58

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.....	X		

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

November 24, 1958

Mole Hill
Well No. 14-17 is located 660 ft. from [S] line and 1980 ft. from [E] line of sec. 17

SR 17 41S 23E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

The elevation of the Kelly Dushing ~~main floor~~ above sea level is 4799 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)

Status: Total Depth: 5770'
 Casing: 8-5/8" @ 486'
 Hole Size: 7-7/8" from 486' to 5770'.

Proposed Work:

- With open end drill pipe - plug as follows:
 - (A) 5550-5700', 45 sacks cement.
 - (B) 4420-4570', 45 sacks cement.
 - (C) 1400-1500', 30 sacks cement.
 - (D) Across 8-5/8" casing shoe, 60 sacks cement

(OVER)

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

Company Shell Oil Company

Address 705 West Municipal Drive
Farmington, New Mexico

By B. W. Shepard
Title Exploitation Engineer

Original signed by
B. W. SHEPARD

W

2. Install marker with a 10 sacks cement cap.

Note: Verbal approval to abandon given by W. J. Shoger U.S.S.S. to G. E. Damsongrove.

NOV 25

FOLD MARK

8-5/8" 486	200 ex. Diamix + 100 Displacement	-	--

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5770 feet, and from - feet to - feet
 Cable tools were used from - feet to - feet, and from - feet to - feet

Abandoned as a "dry hole"

DATES

November 23, 1958 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

R. E. McVay _____, Driller H. B. Lynn _____, Driller
 W. H. Wingo _____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1485	2227	742	Chinle
2227	2314	87	Shinarump
2314	2443	129	Moenkopi
2443	4504	2061	Cutler
4504	5613	1109	Hermosa
5613	—	—	Paradox

FEB 9 1959

Handwritten initials

(OVER)

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

	17	
		X

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal
Lease No. 14-20-603-210

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

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

December 3, 1958

Well No. Nole Hill 14-17 is located 660 ft. from S line and 1980 ft. from E line of sec. 17

SE 17 (1/4 Sec. and Sec. No.) 14S (Twp.) 23E (Range) S1E1W (Meridian)
Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the Kelly Bushing above sea level is 4799 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)

11-18-58 DST #1 5180-5610' Weak blow increasing to strong in 15 minutes, steady strong rest of 2 hour test. Recovered 135' mud, 30' slightly gas out mud. ISIP (90 m.) 1500 psi. PSIP (90 m.) 740 psi (still rising). FP 70/110 psi. IP 2750 psi. Lost 1-1/2 Bbl. mud to formation during test. Did not affect test.

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

Company Shell Oil Company

Address 705 Municipal Drive

Farmington, New Mexico

Original signed by
By B. W. SHEPARD

Title B. W. Shepard
Exploitation Engineer

SHELL OIL COMPANY

WEEK ENDING 23 November 58

CORE FROM 5490 TO 5550

CORES EXAMINED BY L.-L. Aubert

CORE RECORD

AREA OR FIELD Wildcat

COMPANY Shell Oil Company

LEASE AND WELL NO. Mole Hill 34-17

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS
							OIL-GAS
							CORE OR DITCH
1	5490	5526	34'	5490-95.5 (5.5) <u>Limestone</u> , light gray, IVFA, sandy.			See description.
				5495.5-5500.5 (5) <u>Limestone</u> , light brown to light gray, I/III VFA + B ₁ + occasional random fractures partially calcite filled. <u>Bleeding oil from pores and fractures 75% bright yellow fluorescence and cut fluorescence.</u> 5495.5 to 5498 trace <u>bright yellow fluorescence</u> 5498 to 5500.5 (Entire interval appears tight.)			
				5500.5-5523 (22.5) <u>Limestone</u> , dark brown to gray. IVFA (occasional I/III VFA) argillaceous occasional stylolitic and foss., occasional calcite crystals and inclusions interbedded with shale; black, calcareous in the intervals 5508 to 5509 and 5510 to 5511. <u>Trace fluorescence along fractures in the interval 5518 to 5523.</u>			
				5523-5524 (1) <u>Limestone</u> , as above, medium brown to dark gray. IVFA with lenses and inclusions of <u>CHERT</u> , dark gray to dark brown.			
2	5526	5570	24'	(Catcher fell through corehead - Lost 20')			
				5526-5530 (4) <u>Limestone</u> , light brown to gray. IVFA (occasional I/III) silty, argillaceous with lenses and inclusions of chert in the interval 5528 to 5529.			
				5530-5548 (18) <u>Limestone</u> , dark brown to gray, IVFA, very argillaceous, with occasional lenses of chert as above in the interval 5531 to 5534 and 5538 to 5539.			
				5548-5550 (2) <u>Shale</u> , dark gray, very calcareous.			

SHELL OIL COMPANY

WEEK ENDING 23 November 58

CORE FROM 5581 TO 5691

CORES EXAMINED BY L. L. Aubert

CORE RECORD

AREA OR FIELD Wildcat

COMPANY Shell Oil Company

LEASE AND WELL NO. Mole Hill 34-17

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS
							OIL-GAS
							CORE OR DITCH
3	5581	5610	29'	5581 - 5589 (8) <u>Limestone</u> , light brown to light gray. I/III VF-FA, silty, argillaceous fossil, <u>50% spotty floor. 5581 to 5582</u> (appears tight.) 5589 - 5594.5(5.5) <u>Dolomite</u> , light brown to light gray, III/II VFA, argillaceous, silty. <u>100% bright yellow fluorescence and cut fluorescence.</u> (entire interval appears tight) 5594.5 - 5602 (7.5) <u>Limestone</u> , light gray to brown. IVFA, argillaceous fossil, occasionally stylolitic. 5602 - 5606 (4) <u>Dolomite</u> , light gray, III/II VFA + B _{tr} , argillaceous. 5606 - 5608 (2) <u>Limestone</u> , medium to dark gray, IVFA, argillaceous. 5609 - 5610 (2) <u>Shale</u> , dark gray to black, calcareous, silty.			See Description.
4	5673	5628	54.5'	5673 - 5674 <u>Anhydrite</u> , dark brown crystalline. 5674 - 5677 <u>Dolomite</u> , medium to dark brown, I/III VFA, argillaceous, silty. <u>Bleeding oil from one 1/2" fracture trace fluorescence.</u> 5677 - 5678 <u>Shale</u> , black, calcareous, silty. 5678 - 5687 <u>Limestone</u> , dark brown, IVFA argillaceous with stringers of <u>Shale</u> , black. 5687 - 5691 <u>Limestone</u> , dark gray, IVFA with abundant <u>anhydrite</u> inclusions.			

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING 23 November 58

AREA OR FIELD Wildcat

CORE FROM 5691 TO 5767

COMPANY Shell Oil Company

CORES EXAMINED BY _____

LEASE AND WELL NO. Mole Hill 34-17

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCH
				5691 - 5695 <u>Anhydrite</u> , tan to brown crystalline.			See Description
				5695 - 5699 <u>Limestone</u> , medium to dark brown, I/III VFA.			
				5699 - 5706 <u>Limestone</u> , tan to light gray, IVFA, very silty.			
				5706 - 5715 <u>Limestone</u> , dark brown, IVFA, very argillaceous. (grades to Shale, calcareous within)			
				5715 - 5720 <u>Limestone</u> , tan to light gray, IVFA, fossil abundant calcite filled frags and inclusions.			
				5720 - 5721 <u>Dolomite</u> , tan to light gray, I/III, calcareous.			
				5721 - 5725 <u>Limestone</u> , dark brown to gray, IVFA, very argillaceous and silty, occasional brown, <u>anhydrite</u> inclusions.			
				5725 - 27.5 <u>Limestone</u> , dark gray to black, IVFA, very argillaceous.			
5	5728	5770	42'	5728 - 5733 <u>Limestone</u> , dark brown to gray, IVFA, very argillaceous, occasionally silty.			
				5733 - 5736 <u>Dolomite</u> , Medium to dark gray, IVFA, very argillaceous. (grades to <u>Limestone</u> , dolomite)			
				5736 - 5743 <u>Limestone</u> , light brown to gray, I/III, VFA, argillaceous - silty, occasional <u>Anhydrite</u> inclusions, white to tan.			
				5743 - 5746 <u>Limestone</u> , dark gray, IVFA, very argillaceous, silty.			
				5746 - 5767 <u>Shale</u> , dark gray to black, calcareous, silty in part.			

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING 23 November 58

AREA OR FIELD Wildcat

CORE FROM 5767 TO 5770

COMPANY Shell Oil Company

CORES EXAMINED BY L. L. Aubert

LEASE AND WELL NO. Mole Hill 34-17

NO.	FROM	TO	RECOY- ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL - GAS
							CORE OR DITCH
				<p>5767 - 5770</p> <p><u>Limestone</u>, stringer 5765 to 5766, dark brown to light gray, argillaceous.</p> <p><u>Limestone</u>, brown to gray, I/III, VFA, slightly argillaceous.</p>			See Description

DITCH SAMPLES

Examined by Exploration 600 to 2480
to _____Well Mole Hill 34-17
Field or Area Wildcat
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
600	800		<u>Sandstone</u> , reddish orange, well sorted, fine grain, poorly cemented, clean, sub-rounded to round.	
800	900		Temporary, Skip.	
900	1010		As above, plus very fine to fine grain.	
1010	1030		<u>Siltstone</u> , orange to red, slightly calcareous.	
1030	1110		<u>Sandstone</u> , pink to light grey, fine to medium grain, loose, poorly cemented, rounded to sub-rounded.	
1110	1200		<u>Sandstone</u> , orange to red, very fine to coarse grain, poorly sorted and cemented, slightly calcareous, silty in part.	
1200	1250		<u>Sandstone</u> , as above, plus occasional argillaceous partings.	
1250	1300		<u>Sandstone</u> , orange, very fine to fine grain, well sorted, loose, slightly calcareous, sub-angular.	
1300	1350		<u>Sandstone</u> , as above, plus slightly argillaceous, becomes more argillaceous at base.	
1350	1500		<u>Sandstone</u> , orange, well sorted, argillaceous, poorly cemented.	
1500	1550		As above, not argillaceous.	
1550	1600		As above, plus very fine grain to silty.	
1600	1750		<u>Siltstone</u> , orange to red, sandy, more well cemented than above, calcareous.	
1750	1900		<u>Siltstone</u> , brown to red, sandy, more well cemented than above, calcareous.	
1900	2000		<u>Siltstone</u> , light orange to grey, slightly orange stain, very argillaceous, slightly calcareous, speckled in part.	
2000	2320		<u>Siltstone</u> , light pink to grey, less orange stain than above.	
2320	2360		<u>Siltstone</u> , orange to rose to red, slightly argillaceous.	
2360	2390		<u>Shale</u> , steel grey to lavender.	
2390	2400		Skip.	
2400	2470		<u>Shale</u> , light grey, blocky to hard.	
2470	2480		<u>Sandstone</u> , light grey, fine to medium grain, fairly sorted, limestone included.	

DITCH SAMPLES

Examined by Exploration 2480, 3110
to _____Well Mole Hill 34-17
Field or Area Wildcat
Not _____

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
2480	2500		<u>Shale</u> , light grey to maroon, mottled in part.	
2500	2530		<u>Shale</u> , slightly calcareous, sand stringers in part.	
2530	2550		<u>Siltstone</u> , orange to red, slightly calcareous.	
2550	2580		<u>Sandstone</u> , light grey, very fine to cut grain, calcareous, poorly sorted.	
2580	2600		<u>Sandstone</u> , light grey, very fine to coarse grained, well rounded. loose.	
2600	2620		<u>Sandstone</u> , orange, very fine grain, grades to siltstone, slightly calcareous, slightly argillaceous, grey and maroon shale partings.	
2620	2650		<u>Shale</u> , maroon to grey, mottled in part, sandstone included.	
2650	2710		<u>Shale</u> , lavender to maroon to grey, limestone included.	
2710	2740		<u>Siltstone</u> , orange to red, slightly calcareous, grades to very fine grain sandstone, argillaceous, rare brown chert inclusions, maroon and grey shale partings.	
2740	2780		<u>Shale</u> , variegated grey to purple to red, silty, calcareous, pyrite.	
2780	2820		<u>Siltstone</u> , red to grey, calcareous, occasional limestone partings.	
2820	2850		<u>Shale</u> , red to maroon to grey, grades to siltstone in part, upper 10' sandstone partings, lower 20' limestone inclusions, chert.	
2850	2900		<u>Shale</u> , light grey to blue grey, slightly silty in part.	
2900	2950		<u>Shale</u> , variegated: grey to red to maroon, soft, silty in part, chert.	
2950	2980		Skip.	
2980	3000		<u>Shale</u> , maroon and grey.	
3000	3050		<u>Shale</u> , variegated: light grey, red, maroon, with rare limestone partings, sandstone partings, (in upper 20')	
3050	3080		<u>Siltstone</u> , light grey to maroon, with occasional light grey limestone partings, calcareous.	
3080	3110		<u>Shale</u> , variegated, light grey, red, maroon, calcareous, as above.	

DITCH SAMPLES

Examined by Exploration 3110 to 3750
_____ to _____Well Mole Hill 34-17
Field or Area Wildcat
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
3110	3140		<u>Siltstone</u> , red to maroon, light grey mottled, grades to shale, calcareous.	
3140	3150		<u>Shale</u> , red to maroon, calcareous, occasional grey shale partings.	
3150	3170		<u>Siltstone</u> , maroon, calcareous.	
3170	3190		<u>Siltstone</u> , orange to red, rare carbonaceous fragments, silty, pyrite.	
3190	3200		<u>Shale</u> , red, purple, light grey, limestone partings.	
3200	3270		<u>Shale</u> , light grey to pink, to maroon, rare to occasional limestone partings.	
3270	3300		<u>Shale</u> , orange to red, mottled in part, very sandy and silty in part, rare chert fragments.	
3300	3340		<u>Shale</u> , variegated: light grey to purple to red, occasional sandstone partings throughout, rare chert inclusions.	
3340	3350		<u>Shale</u> , orange to red, silty.	
3350	3390		<u>Shale</u> , red orange to light grey, silty in part, with occasional limestone partings, rare pyrite inclusions, calcareous.	
3390	3450		<u>Shale</u> , red, silty, calcareous.	
3450	3540		<u>Shale</u> , red, limestone inclusions, grey shale partings, grades to siltstone within, calcareous.	
3540	3570		<u>Shale</u> , variegated: grey, purple and red, calcareous, upper 10' sandstone partings lower 30' occasional limestone partings.	
3570	3610		<u>Shale</u> , orange to red, calcareous, silty, micaceous.	
3610	3630		<u>Shale</u> , lavender, grey, red, soft, calcareous, sandstone inclusions.	
3630	3650		<u>Shale</u> , red, silty, calcareous, occasional limestone inclusions.	
3650	3670		<u>Shale</u> , variegated: red, maroon, grey, silty, calcareous, occasional limestone inclusions.	
3670	3700		<u>Shale</u> , red, slightly calcareous and silty.	
3700	3730		<u>Siltstone</u> , orange to brown-red, grades to shale at base, calcareous.	
3730	3750		<u>Shale</u> , red, silty, calcareous, limestone partings, sample quality poor.	

DITCH SAMPLES

Examined by Exploration 3750 to 4550
to _____Well Mole Hill 34-17
Field or Area Wildcat
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
3750	3780		<u>Shale</u> , variegated: red, purple, grey, calcareous in part, pyrite.	
3780	3800		<u>Shale</u> , red, silty, calcareous, limestone inclusions.	
3800	3850		<u>Shale</u> , variegated: maroon, red, grey; calcareous.	
3850	3890		<u>Shale</u> , red, silty, calcareous, limestone inclusions, carbonaceous, pyrite.	
3890	3950		<u>Shale</u> , lavender grey, rare pyrite inclusions, calcareous, limestone inclusions.	
3950	4000		<u>Shale</u> , red, calcareous, silty.	
4000	4050		<u>Shale</u> , variegated: maroon, grey, red; silty in part, slightly calcareous, occasional limestone partings.	
4050	4070		<u>Siltstone</u> , red, calcareous, limestone inclusions.	
4070	4100		<u>Shale</u> , light grey, lavender, red; calcareous, occasional sandstone partings.	
4100	4190		<u>Shale</u> , blue grey to maroon; with rare white limestone partings (samples mostly cavings, very poor)	
4190	4260		<u>Siltstone</u> , brown to red; calcareous in part; argillaceous; with occasional light grey and maroon shale streaks.	
4260	4290		<u>Shale</u> , light to medium grey; calcareous with occasional streaks of orange to red sandstone.	
4290	4310		<u>Siltstone</u> , orange to brown, argillaceous, calcareous.	
4310	4420		<u>Shale</u> , maroon, purple, light grey; calcareous in part; silty in part; (samples still very poor)	
4470	4480		<u>Sandstone</u> , very fine grain; brown; well sorted; argillaceous; slightly calcareous.	
4480	4500		Skip.	
4500	4520		<u>Limestone</u> , white to tan; IVFA; fossiliferous in part; with occasional medium grey argillaceous streaks; slightly sandy in part.	
4520	4535		<u>Siltstone</u> , light to medium brown; calcareous; argillaceous, micaceous, slightly oolitic in part; (sample quality improved) grades to very fine grain sandstone within.	
4535	4550		<u>Shale</u> , lavender to maroon; mottled; slightly calcareous in part.	

DITCH SAMPLES

Examined by Exploration 4550 to 4655
toWell Mole Hill 34-17
Field or Area Wildcat
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
4550	4570		<u>Shale</u> , maroon and light grey; silty in part; slightly bentonitic in part.	
4570	4575		<u>Shale</u> , purple to blue grey; slightly silty in part.	
4575	4585		<u>Limestone</u> , white to tan; IVFA; with abundant clear medium calcite crystals in part; occasional tan translucent, chert fragments.	
4585	4595		<u>Shale</u> , light grey to light green; slightly silty in part; blocky; (grades to mudstone within) rare limestone partings.	
4595	4605		<u>Limestone</u> , light to medium brown; III-IVF-MA; slightly silty; with occasional light green shale partings;	
4605	4610		<u>Shale</u> , light green to light grey; as above.	
4610	4615		<u>Limestone</u> , light to medium brown; III-I VF-MA;	
4615	4620		<u>Shale</u> , light green to light grey;	
4620	4655		<u>Shale</u> , purple to maroon; slightly calcareous; silty; with rare light brown limestone partings and occasional light grey shale streaks.	

DITCH SAMPLES

Examined by Exploration 5065 to 5345
to _____Well Mole Hill 34-17
Field or Area Wildcat
Net

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
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argillaceous to argillaceous, rare brown translucent chert fragments.

5065	5080		<u>Limestone</u> , white to tan, IVFA, with occasional medium grey shale partings, and rare orange stained chert fragments.	
5080	5110		<u>Shale</u> , dark brown to medium grey, very calcareous, silty in part, occasional limestone partings.	
5110	5120		<u>Limestone</u> , light to medium grey, III-IVFA, argillaceous.	
5120	5135		<u>Shale</u> , purple to medium grey, calcareous, silty.	
5135	5150		<u>Limestone</u> , medium brown to light grey, I-IIIIVFA, silty, argillaceous, with rare to occasional fossiliferous fragments, occasional grey and dark maroon shale partings.	
5150	5160		<u>Shale</u> , medium grey, calcareous, very silty.	
5160	5175		<u>Limestone</u> , medium to dark brown, III-IVFA, argillaceous to very argillaceous, silty.	
5175	5185		<u>Limestone</u> , tan to light brown, I-VFA.	
5185	5190		<u>Limestone</u> , light grey, IIIIVFA.	
5190	5210		<u>Limestone</u> , white to tan, IVFA, slightly sandy, with abundant medium grey shale partings.	
5210	5215		<u>Limestone</u> , light to medium grey, IIIIVFA.	
5215	5240		<u>Limestone</u> , white to light grey, IVFA, spines and Bryozoan fragments, occasional medium grey, shale partings, rare to occasional translucent chert fragments.	
5240	5260		<u>Shale</u> , olive green to medium grey, calcareous, silty in part, splintery.	
5260	5270		<u>Limestone</u> , white to tan, I-IIIVFA, sandy in part, with abundant interbeds of medium grey shale.	
5270	5275		<u>Shale</u> , medium to dark grey, calcareous, silty in part.	
5275	5280		<u>Limestone</u> , white to tan, IVFA, sandy in part.	
5280	5290		<u>Shale</u> , medium to dark grey, calcareous.	
5290	5305		<u>Limestone</u> , tan to light grey, IIIIVFA, sandy to very sandy, with abundant interbeds of grey shale, as above.	
5305	5315		<u>Shale</u> , medium dark grey, calcareous.	
5315	5345		<u>Limestone</u> , tan to medium brown, IVFA, occasional to abundant grey shale partings increasing toward base.	

DITCH SAMPLES

Examined by Exploration 5345 to 5490
 _____ to _____

Well Mole Hill 34-17
 Field or Area Wildcat
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
5345	5360		<u>Limestone</u> , tan to medium brown, IIIIVFA, very abundant fossil fragments in part.	
5360	5380		<u>Limestone</u> , white to tan, IVFA, rare brown chert fragments.	
5380	5410		<u>Limestone</u> , tan to light grey, IVFA.	
5410	5420		<u>Shale</u> , light to medium grey, calcareous.	
5420	5430		<u>Limestone</u> , tan to light grey, IVFA.	
5430	5440		<u>Limestone</u> , white to tan, I-IIIIVFA, abundant grey shale partings in lower half.	
5440	5450		<u>Limestone</u> , tan to medium brown, I-IIIIVFA, occasional brown and milky chert fragments,	
5450	5455		<u>Limestone</u> , medium to dark brown, I-IIIIVFA, occasional chert fragments stylolite in part.	
5455	5460		<u>Limestone</u> , light to medium grey, to medium brown, III-IVFA, slightly argillaceous in part, sandy in part, occasional foram.	
5460	5470		<u>Limestone</u> , white to light grey, III-IVFA, very sandy in part, foram.	
5470	5475		<u>Limestone</u> , tan, IVFA.	
5475	5485		<u>Limestone</u> , tan to light grey, dark brown, I-IIIIVFA, sandy in part, rare fossiliferous fragments, with abundant interbeds of milky translucent chert in lower half.	
5485	5490		<u>Limestone</u> , white to tan, IVFA, very sandy to sandy.	

DRILLING REPORT

FOR PERIOD ENDING

11-23-58

17

(SECTION OR LEASE)

T41S

R23E

(TOWNSHIP OR RANCHO)

Wildcat

(FIELD)

San Juan, Utah

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p><u>Location:</u> 660' N and 1980' W of SE corner Sec. 17, T41S, R23E, SLBM, San Juan County, Utah.</p> <p><u>Elevations:</u> DF 4797.35 GR 4787.35 KB 4798.85</p>
10-21 to 10-23	0	1383	Spudded 12:00 Midnight 10-21-58. Ran and cemented (475') 8-5/8", 28#, J-55 casing at 486' with 200 sacks Diamix followed by 100 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, ok.
10-24 to 11-12	1383	5430	<u>Drilled 4047'</u>
11-13 to 11-17	5430	5612	<u>Drilled 62. Cored 120.</u> Core #1 5490-5526, Core #2 5526-5570, Core #3 5581-5610.
11-18	5610	5673	<u>Drilled 63'</u> DST #1 5480-5610 Cook testers. Two 6-5/8" BT packers at 5474 and 5480, 3/4" subsurface bean 1" surface bean, perforations 5480-5500 and 5585-5610, two pressure recorders Amerada (out) 5485' and Amerada (out) 5608'. Initial shut in 30 minutes, open 2 hours, Final shut in 1 1/2 hours, weak blow initially increasing to strong in 15 minutes. Recovered 135' (.74 bbls)M, 30' (.16 bbls) Slightly gas cut mud. ISIP 1640, IFP 115, FFP 160, FSIP 805, HP 2830/2830.
11-19 to 11-21	5673	5770	<u>Cored 97'</u> Core #4 5673-5728, Core #5 5728-5770.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZES				

Wildcat

DRILLING REPORT
FOR PERIOD ENDING

17

(FIELD)
San Juan, Utah
(COUNTY)

11-23-58

(SECTION OR LEASE)
T41S R23E
(TOWNSHIP OR RANCHO)

DAY	DEPTH		REMARKS
	FROM	TO	
11-22 to 11-23	5770	TD	<p>Ran Electrical Survey, Microlog and Gamma Ray Neutron log. Plugged as follows:</p> <p>5700-45 Sacks cement 4570-45 sacks cement 1500-30 sacks cement 525-60 sacks cement Surface 10 sacks cement</p> <p>Located top of top plug at 372'. Installed marker - abandoned. Released rig 1:30 P.M. 11-23-58.</p> <p>Checked BOP Daily</p> <p>Mud Summary Wt. 9.5-10.2#/gal. Vis. 36-41 sec WL 9.3-14 cc FC 2/32"</p> <p>Contractor - H. B. Lynn</p> <p>Drillers - R. E. McVay W. H. Wingo</p> <p>Co. Pusher - G. L. Christiansen</p>

CONDITION AT BEGINNING OF PERIOD					
HOLE			CASING SIZE	DEPTH SET	
SIZE	FROM	TO			
DRILL PIPE SIZES					

Ged

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-240

	17	
		X

SUNDRY NOTICES AND REPORTS ON WELLS

7/14
2/11

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	X
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)

January 23, 19 59

Well No. Mole Hill 34-17 is located 660 ft. from SKX line and 1980 ft. from E line of sec. 17

SE 17 41 S 23 E S.L.B.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

Kelly bushing

The elevation of the ~~drinker~~ above sea level is 4799 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)

Status: Total Depth - 5770'
Casings: 8-5/8" @ 486'
Hole size: 7-7/8" from 486' to 5770'

Abandonment Work:

- With open end drill pipe - plugged as follows:
 - 5550-5700, 45 sacks cement
 - 4420-4570, 45 sacks cement
 - 1400-1500, 30 sacks cement
 - Across 8-5/8" casing shoe, 60 sacks cement.
- Installed marker with a 10 sack cement cap and abandoned.

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

Company SHELL OIL COMPANY
Address 705 West Municipal Drive
Farmington, New Mexico

Original signed by
B. W. SHEPARD
By B. W. Shepard
Title Exploitation Engineer