

**FILE NOTATIONS**

Entered in NID File \_\_\_\_\_  
 Entered On S.R. Sheet \_\_\_\_\_  
 Location Map Pinned \_\_\_\_\_  
 Card Indexed \_\_\_\_\_  
 IWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_  
 Copy NID to Field Office \_\_\_\_\_  
 Approval Letter \_\_\_\_\_  
 Disapproval Letter \_\_\_\_\_

**COMPLETION DATA:**

Date Well Completed 12-3-57  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA

Location Inspected \_\_\_\_\_  
 Bond released \_\_\_\_\_  
 State of File Land \_\_\_\_\_

**LOGS FILED**

Driller's Log 1-21-58  
 Electric Logs (No: 1-3)

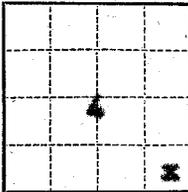
E \_\_\_\_\_ I \_\_\_\_\_ E-I  GR \_\_\_\_\_ GR-I  Micro   
 Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

*Sub Rep of [unclear]*

Form 9-331 b  
(April 1952)

(SUBMIT IN TRIPPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-221

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)

September 20, 19 57

Well No. White Mesa 2 is located 4627 ft. from N line and 651 ft. from E line of sec. 4

SE 4 (¼ Sec. and Sec. No.)      43 S (Twp.)      24 E (Range)      SLM (Meridian)  
Wildcat (Field)      San Juan (County or Subdivision)      Utah (State or Territory)

The elevation ~~of the bench floor above sea level~~ is 5,116 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)

1. Drill 11" hole to 1100'.
2. Cement 8 5/8" casing at 1100' with 27% sacks construction cement.
3. Drill 7 7/8" hole to 6350'.
4. If commercial production is obtained, a supplementary completion notice will be issued, otherwise plug and abandon in accordance with USGS regulations.

Surface formation is Navajo

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

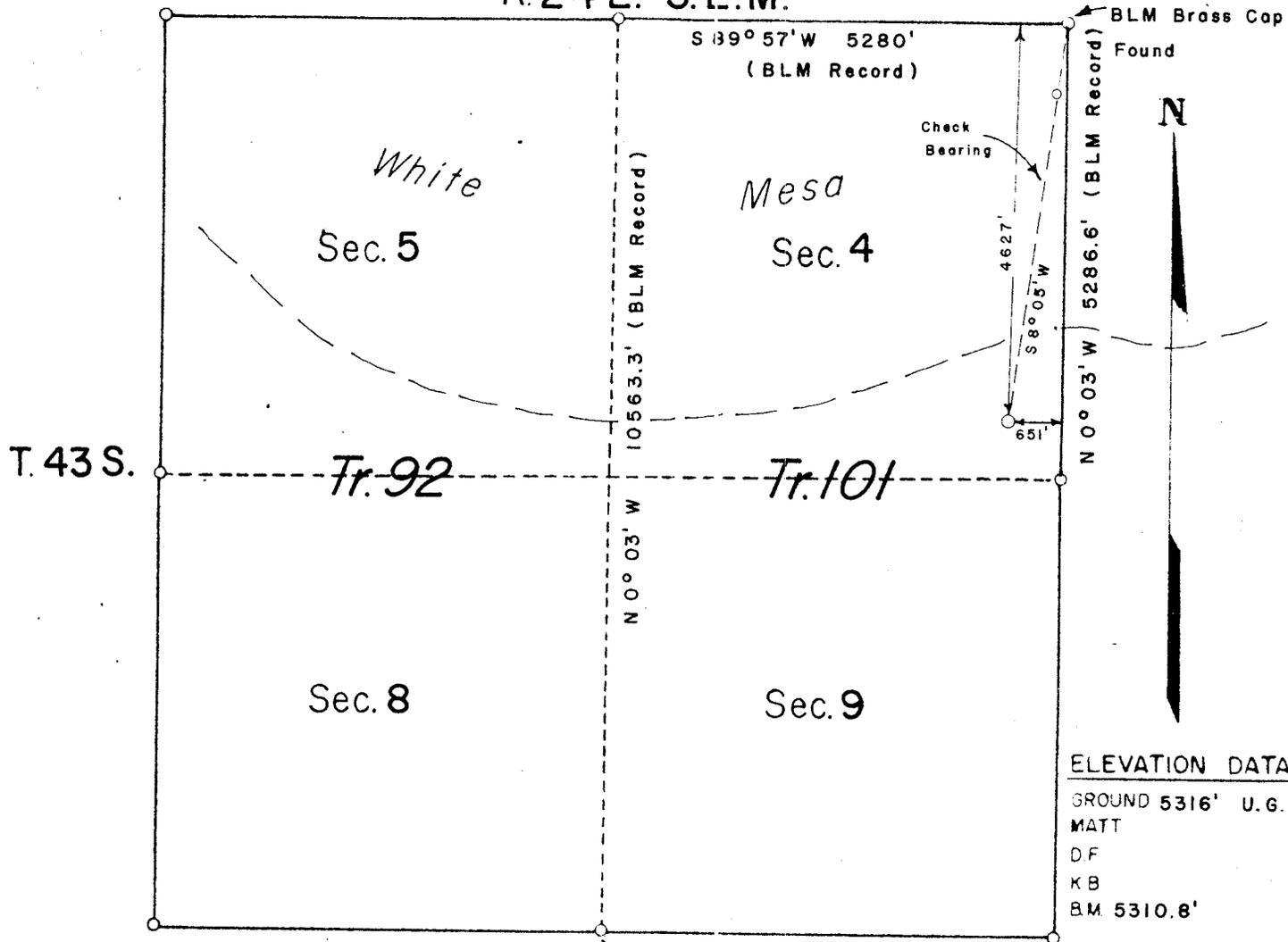
Company SHELL OIL COMPANY

Address 101 S Mabrend

Farmington, New Mexico

By B W Shepard  
S. W. Shepard  
Title Exploitation Engineer

R. 24 E. S. L. M.



ELEVATION DATA

GROUND	5316' U.G.
MATT	
DF	
KB	
B.M.	5310.8'

REFERENCE POINT DATUM-

1" X 2" STAKES SET AT 10' N, S, E, & W OF LOC  
 1" X 2" stake and 3' flag set at 280' W., 187' N., 207' E. & 202' S. of Loc.  
 1" X 2" hub and 10' flag set at Loc. being 651' W. & 4627' S. of the  
 NE Cor. of Sec. 4, Tr. 101, T. 43 S., R. 24 E., S. L. M.  
 1" X 2" hub and 3' flag bears West 280' from the Loc. for B.M.  
 Elevation data shown hereon is in reference to the SW Cor.  
 of Sec. 9 above (5319 Shell).

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

July 22, 1957

*John A. Kroeger*  
 John A. Kroeger, Reg. L.S.  
 Utah Reg. No. 1648



Drawn By: Ritter	<b>SHELL OIL COMPANY</b>	Scale: 1" - 2000'
Checked By: A.C.T.		
Date: 7/23/57		

LOCATION OF WHITE MESE No. 2  
 SAN JUAN COUNTY, UTAH, Tr. 101, Sec. 4, T. 43 S., R. 24 E., SLM

September 24, 1957

Shell Oil Company  
101 South Behrend  
Farmington, New Mexico

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. White Mesa 2, which is to be located 4627 feet from the north line and 651 feet from the east line of Section 4, Township 43 South, Range 24 East, S1EM, San Juan County, Utah.

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

GLEON B. FREIGHT  
SECRETARY

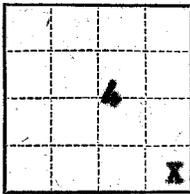
GBF:en

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

DR-USGS

(SUBMIT IN TRIPLICATE)

Indian Agency Nevajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-221

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)

October 22, 19 57

White Mesa  
Well No. #2 is located 4627 ft. from [N] line and 651 ft. from [E] line of sec. 4

SE 4                      43 S                      24E                      SLM  
(¼ Sec. and Sec. No.)                      (Twp.)                      (Range)                      (Meridian)

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

The elevation of ~~the ground surface~~ is 5316 ft. (Approximate 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)

(Spudded 10-20-57)

10-20, 21-57      Ran and cemented 8-5/8" 28# at 1154' with 275 sacks treated cement. Good returns to surface. Flanged up and waited on cement. Tested BOP and casing with 700 PSI 15 minutes 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 101 South Behrend Avenue

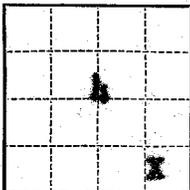
Farmington, New Mexico

By B. W. Shepard

Title B. W. Shepard  
Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 11-20-603-221

*Noted*  
*1.7-58 H*

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.....	<input checked="" type="checkbox"/>		

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

December 2, 19 57

White Mesa  
Well No. #2 is located 4627 ft. from [N] line and 651 ft. from [E] line of sec. 4

SE 4 (1/4 Sec. and Sec. No.)      133 (Twp.)      21E (Range)      SLM (Meridian)  
Wildcat (Field)      San Juan (County or Subdivision)      Utah (State or Territory)

Kelly Dushing  
The elevation of the ~~datum~~ above sea level is 5322.3 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: Depth 6365' Plug 5664'  
Surface Casing 8-5/8" at 1154'  
Hole size: 7-7/8" from 1167 to total depth.

Proposed Work:

- Place plugs through open end drill pipe as follows.  
5575' with 70 sacks cement  
4535' with 70 sacks cement  
2535' with 70 sacks cement  
1200' with 45 sacks cement
- Feel for top plug.
- Place 10 sacks cement cap at surface, install marker and abandon in accordance with USGS Regulations.

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 101 South Behrend

Farmington, New Mexico

By B. W. Shepard  
B. W. Shepard

Title Exploitation Engineer

DRILLING REPORT  
FOR PERIOD ENDING

Section 4

(SECTION OR LEASE)

12-2-57

T43S

R24E

(TOWNSHIP OR RANCHO)

White Mesa

(FIELD)

San Juan, Utah

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
11-20 to 11-21	5677	5905	<u>Drilled 228'</u> .
11-21 to 11-22	5905	5937	Cored 32'; Core #4, recovered 30'
11-22 to 11-24	5937	6037	Cored 100'; Core #5, recovered 50'; Core #6, recovered 48.5'
11-24 to 11-25			DST #3, 5917'/6037', ISI 30 min. open 2 hrs., FSI 1 hr. 30 min., recovered 320' (2.55 bbls) heavily gas-cut oil mud, 92' (0.73 bbl.) heavily gas-cut oil salt water, 38' (0.30 bbl.) gas-cut oily salt water. Moderate blow declining slightly for 1 hr. 33 min., increasing to 4 lb. pressure with 3/8" orifice for 5 min., 1 lb. for 5 min., moderate with less than 1 lb. remainder of test. Gas to surface in 1 hr. 33 min., probably methane. Test for H <sub>2</sub> S negative. ISIP 2150 psi., IFP 200 psi., FFP 350 psi., FSIP 1800 psi., nearly stabilized, HP 3400 psi., water salinity 10,000 ppm-32,000 ppm (r); mud in pits 1500 ppm (r).
11-25 to 11-29	6037	6365	<u>Drilled 330'</u> . Ran Schlumberger Electrical Induction (3500/6364), Gamma Ray-Neutron (4400/6369) and Microlog (4400/6369). Driller's TD 6365, Schlumberger TD 6370'.
11-30 to 12-1			With open end of drill pipe at 5751', plugged with 40 sacks regular cement.
12-2			DST #4, 5525/5564. ISI 30 min., Open 2 hrs., FSI 1 hr., recovered 400' (3.2 bbls) salt water-cut mud, 30' (0.24 bbl.) slightly muddy salt water. Faint blow increasing immediately to weak, continuing weak remainder of test. ISIP 2300 psi., IFP 50 psi., FFP 200 psi., FSIP 1400 psi. still rising, HP 3100 psi., No gas to surface. Water salinity: 52,000 ppm (t). Mud in pits: 1500 ppm (t).
			Mud Summary: Wt. 9.5-10#/gal.; vis. 67-90 sec; WL 3.6-6.0 cc.; pH 9.5-12; calc 1/32 - 2/32"; Cl 900 - 6000 ppm.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
11"	0	1167	8-5/8"	Cemented at 1154'
7-7/8"	1167	5677		
DRILL PIPE SIZES			4-1/2"	

Treated with Rayflo, driscose, gel.

Plugged well as follows: 70 sacks construction cement at 5575'; 70 sacks construction cement at 4535'; 70 sacks construction cement at 2515'; 45 sacks construction cement at 1200'. Found top of cement in casing at 1102'. Rig released 8 p.m. 12-3-57. ABANDONED. Exeter Drilling Co.  
Tool Pusher: Lee Naylor; Drillers: T. B. Gary, A. Gary, C. Wilson, M. L. Pershall

SHELL OIL COMPANY

White Mesa

WELL NO. 2

DRILLING REPORT  
FOR PERIOD ENDING

Section 4

White Mesa  
(FIELD)  
San Juan, Utah  
(COUNTY)

11-19-57

(SECTION OR LEASE)  
T43S R24E  
(TOWNSHIP OR RANCHO)

JAN 21 1958

DAY	DEPTHS		REMARKS
	FROM	TO	
57			<p><u>Location:</u> 4627' S and 651' W of NE Corner, Section 4, T43S, R24E, SLBM, San Juan County, Utah.</p> <p><u>Elevations:</u> DF 5321.1' GR 5311.3' KB 5322.3'</p>
10-20 to 10-21	0	1167	Spudded in at 3:00 P.M., 10-20-57, and drilled 1167' with an 11" bit.
10-21 to 10-23			Ran in and cemented 1142' of 8-5/8" casing at 1154 with 275 sacks construction cement. Nippled up and installed BOP equipment. Tested with 800 lbs. for 25 min.
10-23 to 11-13	1167	5596	<u>Drilled 4429'</u> with 7-7/8" bit.
11-13 to 11-14	5596	5546	Cored 50': Cored #1, recovered 48'.
11-15			DST #1, 5456/5546, ISI 1 hr, open 2 hr. FSI 1 hr. Recovered 95' (0.8 bbl.) slightly gas-cut oily mud with 5% free oil breaking out of mud just above the tool. Moderate blow decreasing steadily to weak for 30 min., increasing to moderate in 15 min., moderate remainder of test. No gas to surface. ISIP 1800 psi., IFP 100 psi., FFP 110 psi., FSIP 685 psi. still rising, HP 2975 psi. Johnston Testers. Mud salinity: 850 ppm (r); mud in pits: 750 (r).
11-16	5546	5577	<u>Drilled 31'</u> .
11-16 to 11-19	5577	5677	Cored 100': Core #2, recovered 50'; core #3, recovered 50'.
11-19			DST #2, 5588/5677'; ISI 30 min. open 1 hr. 30 min., FSI 45 min. Recovered 90 ft. (0.72 bbl.) watery gas-cut mud. Faint blow declining to very faint; dead in 55 min. No gas to surface. ISIP 0, IFP 40 psi., FFP 40 psi., FSIP 1230 psi., still rising, HP 2810 psi. Mud salinity: 1600 ppm (r); mud in pits: 1000 ppm (r). Checked BOP daily. Mud summary: Wt. 9.4-10#/gal; vis. 41-88 sec. W.L. 2.4-10.8 cc., pH 10.5-12.0, cake 1/32"-2/32", Cl 750-1100 ppm. Treated with Rayflo, driscose, gel.
CONDITION AT BEGINNING OF PERIOD			
HOLE			CASING SIZE
SIZE	FROM	TO	DEPTH SET
DRILL PIPE SIZES			
4-1/2			

## DITCH SAMPLES

Examined by 4460 to 4560  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED	NOT
4460	4470	70	<u>Siltstone</u> , brown, calcareous.		
		20	<u>Shale</u> , grayish green, micaceous.		
		10	<u>Sandstone</u> , light gray, fine grain.		
4470	4490	60	<u>Siltstone</u> , as above.		
		40	<u>Shale</u> , as above, silty.		
4490	4500	80	<u>Siltstone</u> , as above.		
		20	<u>Shale</u> , as above.		
4500	4525	70	<u>Siltstone</u> , brown, calcareous.		
		30	<u>Shale</u> , light gray - light yellowish brown.		
4525	4530	60	<u>Shale</u> , light gray - green, calcareous.		
		20	<u>Siltstone</u> , brown - yellowish brown.		
		20	<u>Limestone</u> , light gray, I VFA.		
4530	4535	70	<u>Shale</u> , light gray - green, calcareous.		
		30	<u>Siltstone</u> , brown - yellowish brown.		
4535	4540	70	<u>Shale</u> , light grayish green, calcareous.		
		10	<u>Siltstone</u> , as above.		
		20	<u>Limestone</u> , light gray, I VFA.		
4540	4545	50	<u>Shale</u> , as above, calcareous.		
		30	<u>Siltstone</u> , as above, calcareous.		
		10	<u>Limestone</u> , as above.		
		10	<u>Sandstone</u> , green - gray, fine grain.		
4545	4550	50	<u>Shale</u> , as above.		
		30	<u>Siltstone</u> , as above.		
		20	<u>Sandstone</u> , green - gray, fine grain.		
4550	4560	70	<u>Shale</u> , light gray, tan and pink mottled, calcareous.		
		30	<u>Siltstone</u> , medium brown, calcareous.		

## DITCH SAMPLES

Examined by \_\_\_\_\_ 4560 to 4635  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4560	4565	40	<u>Shale</u> , as above, calcareous.	
		30	<u>Sandstone</u> , light - medium brown, fine grain.	
		30	<u>Siltstone</u> , brown- gray, calcareous.	
4565	4575	60	<u>Siltstone</u> , light brown, calcareous.	
		20	<u>Sandstone</u> , as above.	
		20	<u>Shale</u> , light gray - light green, calcareous.	
4575	4585	50	<u>Siltstone</u> , brown - gray, calcareous.	
		30	<u>Shale</u> , light gray.	
		20	<u>Sandstone</u> , brown - gray, fine grain, argillaceous, calcareous.	
4585	4590	40	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , white - light gray, I/III VFA, sandy.	
		30	<u>Shale</u> , light gray - grayish green, calcareous.	
4590	4600	40	<u>Siltstone</u> , as above, micaceous.	
		30	<u>Limestone</u> , white - light gray, I/III VFA, sandy.	
		30	<u>Shale</u> , light gray - grayish green, calcareous.	
4600	4610	50	<u>Siltstone</u> , brown - light gray, calcareous, micaceous.	
		30	<u>Limestone</u> , white - light gray, I/III VFA, sandy.	
		20	<u>Shale</u> , light gray - grayish green, carbonaceous, calcareous.	
4610	4625	60	<u>Siltstone</u> , varicolored, brown - light gray, purple, calcareous, micaceous.	
		30	<u>Shale</u> , light gray - green.	
		10	<u>Limestone</u> , as above.	
4625	4635	70	<u>Siltstone</u> , as above, micaceous, calcareous.	
		20	<u>Shale</u> , light gray.	
		10	<u>Limestone</u> , as above.	

## DITCH SAMPLES

Examined by 4635 to 4705  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4635	4650	60	<u>Limestone</u> , white - light gray, I/III VFA, sandy in part.	
		30	<u>Siltstone</u> , varicolored, brown - purple.	
		10	<u>Sandstone</u> , light gray, fine grain.	
4650	4665	30	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above.	
		30	<u>Sandstone</u> , gray - brown, very fine grain.	
		10	<u>Shale</u> , gray, calcareous.	
4665	4675	40	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above.	
		20	<u>Sandstone</u> , as above.	
		10	<u>Shale</u> , as above.	
4675	4680	40	<u>Siltstone</u> , brown - gray, sandy, calcareous.	
		30	<u>Sandstone</u> , light - medium gray, very calcareous, glauconitic, fine grain.	
		20	<u>Shale</u> , gray.	
		10	<u>Limestone</u> , as above.	
4680	4685	50	<u>Siltstone</u> , varicolored, brown - gray - purple, calcareous.	
		30	<u>Shale</u> , calcareous, silty.	
		10	<u>Limestone</u> , as above.	
		10	<u>Sandstone</u> , as above.	
4685	4695	70	<u>Siltstone</u> , as above.	
		20	<u>Shale</u> , as above.	
		10	<u>Limestone</u> , as above.	
4695	4705	50	<u>Limestone</u> , white - light gray, I/III VF-FA, very sandy in part.	
		40	<u>Siltstone</u> , dark brown - purple, very calcareous.	
		10	<u>Shale</u> , brown - gray.	

DITCH SAMPLES

Examined by 4705 to 4780  
to \_\_\_\_\_

Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
4705	4710	50	<u>Limestone</u> , white - light gray I/III VFA, very sandy in part, fossiliferous.	
		50	<u>Siltstone</u> , varicolored brown - purple, calcareous.	
4710	4715	80	<u>Limestone</u> , tan - medium gray, I/III VF - medium A, argillaceous and silty in part, fossiliferous, with pseudo-oolites.	
		20	<u>Siltstone</u> , as above.	
4715	4720	70	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above.	
4720	4725	60	<u>Siltstone</u> , varicolored, brown, gray, purple, very calcareous.	
		20	<u>Limestone</u> , tan - gray, I VFA, fossiliferous, sandy in part.	
		20	<u>Shale</u> , light gray.	
4725	4730	80	<u>Siltstone</u> , brown.	
		20	<u>Limestone</u> , light - dark gray, III VFA, sandy in part, with fossiliferous crinoid stem.	
4730	4740	90	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , as above.	
4740	4750	100	<u>Siltstone</u> , medium brown, calcareous.	
4750	4755	90	<u>Siltstone</u> , as above, argillaceous, mottled in part.	
		10	<u>Limestone</u> , white - medium gray, I/III VFA, fossiliferous in part.	
4755	4765	80	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , as above.	
		10	<u>Shale</u> , gray, micaceous, silty.	
4765	4775	50	<u>Siltstone</u> , as above.	
		40	<u>Limestone</u> , tan - medium gray, I VFA, silty in part.	
		10	<u>Shale</u> , gray.	
4775	4780	60	<u>Limestone</u> , white - medium gray, silty in part, fossiliferous in part, I/III VF-FA.	
		30	<u>Siltstone</u> , brown - purple, argillaceous, micaceous.	

DITCH SAMPLES

Examined by 4780 cont. to 4840  
to \_\_\_\_\_

Well White Mesa #2  
Field or Area \_\_\_\_\_

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
4780	Contin.	10	<u>Shale</u> , gray, micaceous, silty.	
4780	4785	70	<u>Siltstone</u> , varicolored, calcareous, brown, gray, purple.	
		30	<u>Limestone</u> , white - light gray, I VFA, very sandy in part, with calcite crystals.	
4785	4795	80	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , as above.	
4795	4800	70	<u>Siltstone</u> , as above, with mottled colorations.	
		30	<u>Limestone</u> , tan - medium gray, I/III VFA, very sandy in part.	
4800	4805	100	<u>Limestone</u> , siltstone, as above, with white anhydrite.	
4805	4810	60	<u>Siltstone</u> , varicolored brown, gray, purple, very calcareous.	
		40	<u>Limestone</u> , fossiliferous, light - medium gray, III VFA, very sandy, silty.	
4810	4815	100	<u>Siltstone</u> , limestone, as above, with brown anhydrite.	
4815	4820	80	<u>Limestone</u> , I/III VFA, tan - medium gray, very sandy.	
		20	<u>Siltstone</u> , as above.	
4820	4825	80	<u>Limestone</u> , white - medium gray, I - III VFA, fossiliferous, very sandy in part.	
		20	<u>Chert</u> , red - brown, calcareous.	
4825	4830	25	<u>Chert</u> , orange - light brown, very calcareous.	
		75	<u>Limestone</u> , white - light gray - tan, I/III VFA, fossiliferous sandy in part.	
4730	4735	25	<u>Siltstone</u> , light gray - green, micaceous, calcareous.	
		75	<u>Limestone</u> , as above.	
4735	4740	60	<u>Siltstone</u> , light gray - medium brown, calcareous, micaceous.	
		40	<u>Limestone</u> , as above.	

## DITCH SAMPLES

Examined by \_\_\_\_\_ 4840 to 4915  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4840	4845	60	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above.	
		10	<u>Chert</u> , orange - brown.	
4845	4855	100	<u>Siltstone</u> , brown - gray, micaceous, calcareous, glauconitic.	
4855	4860	80	<u>Siltstone</u> , brown - gray, calcareous, micaceous, glauconitic.	
		20	<u>Shale</u> , gray, calcareous, mottled.	
4860	4865	60	<u>Limestone</u> , tan - gray, I/III VFA.	
		20	<u>Siltstone</u> , tan, calcareous.	
		20	<u>Sandstone</u> , fine grain, green - white, glauconitic.	
4865	4870	60	<u>Limestone</u> , as above.	
		40	<u>Shale</u> , purple - gray, silty.	
4870	4875	80	<u>Limestone</u> , as above.	
		20	<u>Chert</u> , orange - brown, very calcareous.	
4875	4880	60	<u>Siltstone</u> , brown - red, calcareous, micaceous.	
		40	<u>Limestone</u> , tan - medium gray, I VFA, fossiliferous, with anhydrite, silty in part.	
4880	4890	100	<u>Limestone</u> , white - light gray, I VFA, cherty, clear to orange colored, fossiliferous.	
4890	4895	60	<u>Limestone</u> , white - medium gray, I/III VFA, very sandy in part, fossiliferous.	
		40	<u>Siltstone</u> , varicolored, brown - gray - purple, calcareous.	
4895	4900	20	<u>Limestone</u> , as above, cherty.	
		80	<u>Siltstone</u> , as above.	
4900	4905	10	<u>Limestone</u> , as above.	
		90	<u>Siltstone</u> , as above, with crinoid stem.	
4905	4915	100	<u>Siltstone</u> , brown, micaceous, calcareous, sandy.	

## DITCH SAMPLES

Examined by \_\_\_\_\_ 4915 to 5010  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
4915	4925	100	<u>Limestone</u> , tan - medium brown - gray, I VFA, cherty.	
4925	4935	100	<u>Limestone</u> , white - tan, I VFA, fossiliferous, sandy in part, crinoid.	
4935	4940	100	<u>Limestone</u> , light - medium gray, III VFA, micaceous, very sandy, cherty, argillaceous.	
4940	4945	100	<u>Limestone</u> , as above, with anhydrite.	
4945	4950		No sample.	
4950	4955	100	<u>Sandstone</u> , gray - green, fine grain, calcareous.	
4955	4960	80	<u>Sandstone</u> , as above.	
		20	<u>Siltstone</u> , mottled brown - gray, calcareous, argillaceous.	
4960	4965	50	<u>Sandstone</u> , as above.	
		30	<u>Limestone</u> , with anhydrite, medium gray, I/III VFA.	
		20	<u>Siltstone</u> , brown, argillaceous.	
4965	4970	50	<u>Sandstone</u> , as above.	
		50	<u>Siltstone</u> , as above.	
4970	4980	60	<u>Shale</u> , gray, carbonaceous.	
		40	<u>Sandstone</u> , gray, fine grain, micaceous, calcareous.	
4980	4985	70	<u>Shale</u> , gray - purple	
		30	<u>Siltstone</u> , brown - gray, calcareous.	
4985	4995	80	<u>Limestone</u> , I/III VFA, gray, micaceous.	
		20	<u>Siltstone</u> , varicolored, tan - purple, calcareous.	
4995	5000	50	<u>Siltstone</u> , brown - red, calcareous, micaceous.	
		30	<u>Shale</u> , red - light gray, mottled.	
		20	<u>Limestone</u> , I VFA, tan, cherty.	
5000	5010	100	<u>Limestone</u> , white - medium gray, I/III VFA, sandy in part, with milky chert fragments.	

## DITCH SAMPLES

Examined by \_\_\_\_\_ 5010 to 5090  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
5010	5015	50	<u>Limestone</u> , as above.	
		50	<u>Shale</u> , gray, micaceous, with rare anhydrite, crinoids.	
5015	5020	50	<u>Limestone</u> , tan - brown, I VFA, with orange chert.	
		50	<u>Siltstone</u> , light gray - green, calcareous, rare anhydrite.	
5020	5025	100	<u>Siltstone</u> , as above.	
5025	5030	100	<u>Siltstone</u> , as above, with rare orange and brown anhydrite inclusions.	
5030	5035	100	<u>Siltstone</u> , as above, with rare chert fragments.	
5035	5040	100	<u>Limestone</u> , tan, I VFA, with rare chert fragments.	
5040	5045	70	<u>Siltstone</u> , gray - green, calcareous.	
		30	<u>Shale</u> , gray - purple, mottled in part.	
5045	5055	100	<u>Limestone</u> , cream - tan, I VFA, with rare chert fragments.	
5055	5060	60	<u>Limestone</u> , as above.	
		40	<u>Siltstone</u> , red - pink, calcareous.	
5060	5065	80	<u>Limestone</u> , as above.	
		20	<u>Siltstone</u> , as above, micaceous.	
5065	5070	80	<u>Limestone</u> , light - dark gray, I/III VFA, with fossil fragments.	
		20	<u>Siltstone</u> , gray, argillaceous, calcareous.	
5070	5075	50	<u>Limestone</u> , as above.	
		50	<u>Shale</u> , dark gray, very calcareous, silty.	
5075	5080	60	<u>Shale</u> , as above, with rare anhydrite inclusions.	
		30	<u>Limestone</u> , I VFA, white - tan.	
		10	<u>Siltstone</u> , varicolored, mottled in part.	
5080	5085	100	<u>Shale</u> , as above, very silty and very calcareous, micaceous.	
5085	5090	70	<u>Siltstone</u> , varicolored, argillaceous, micaceous.	
		30	<u>Limestone</u> , tan - olive gray, I VFA.	

## DITCH SAMPLES

Examined by 5090 to 5165  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5090	5095	60	<u>Siltstone</u> , as above, carbonaceous	
		40	<u>Limestone</u> , cream - tan, I VFA, with occasional fossil fragments.	
5095	5100	100	<u>Siltstone</u> , light - medium gray, calcareous, glauconitic, with rare white anhydrite inclusions.	
5100	5105	80	<u>Siltstone</u> , as above, hard, compact, with occasional glauconite grains.	
		20	<u>Shale</u> , gray - purple, mottled in part.	
5105	5110	70	<u>Siltstone</u> , as above, with occasional white anhydrite inclusions.	
		30	<u>Limestone</u> , tan - medium brown, I VFA, with occasional fossil fragments.	
5110	5115	50	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above, with abundant fossil fragments and rare chert fragments.	
		20	<u>Shale</u> , gray - purple, soft, mottled in part.	
5115	5125	100	<u>Limestone</u> , white - tan, I VFA, very sandy, fossiliferous, with occasional chert fragments, occasional white anhydrite inclusions.	
5125	5130	100	<u>Limestone</u> , tan - medium gray, I/III, VFA, siliceous with rare anhydrite inclusions, abundant fossil fragments, and abundant translucent chert fragments.	
5130	5135	100	<u>Limestone</u> , tan - medium brown, I/III VFA, with rare chert fragments and white anhydrite crystals.	
5135	5140	100	<u>Limestone</u> , tan - medium gray, I/III VFA, with occasional translucent chert fragments, fossiliferous, silty in part.	
5140	5145	100	<u>Limestone</u> , tan, I VFA.	
5145	5150	30	<u>Limestone</u> , tan - medium gray, I VFA, fossiliferous in part.	
		70	<u>Siltstone</u> , light - medium gray, very calcareous, micaceous.	
5150	5155	100	<u>Siltstone</u> , as above, with rare pyrite crystals.	
5155	5160	80	<u>Limestone</u> , white - tan, I VFA, very sandy, with occasional fossil fragments.	
		20	<u>Siltstone</u> , as above.	
5160	5165	100	<u>Limestone</u> , as above.	

## DITCH SAMPLES

Examined by 5165 to 5245  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5165	5170	30	<u>Limestone</u> , as above.	
		70	<u>Siltstone</u> , green - gray, calcareous, varicolored, micaceous, glauconitic and sandy in part.	
5170	5175	100	<u>Siltstone</u> , as above, varicolored green - brown, argillaceous, with rare white - orange anhydrite inclusions.	
5175	5180	100	<u>Shale</u> , medium gray - olive green, calcareous, micaceous.	
5180	5185	90	<u>Shale</u> , as above, light green - dark gray, with rare anhydrite inclusions.	
		10	<u>Sandstone</u> , dark green, fine grain, micaceous, glauconitic.	
5185	5190	70	<u>Siltstone</u> , medium gray - light green, calcareous, micaceous.	
		30	<u>Shale</u> , brown - gray, calcareous, silty.	
5190	5200	100	<u>Shale</u> , as above, reddish brown - gray.	
5200	5205	100	<u>Shale</u> , as above, splintery in part.	
5205	5210	80	<u>Limestone</u> , white - tan I/III VFA, with abundant brown calcite crystals.	
		20	<u>Shale</u> , as above.	
5210	5215	70	<u>Limestone</u> , as above, with abundant white - orange anhydrite inclusions.	
		30	<u>Siltstone</u> , light - medium gray, calcareous, micaceous.	
5215	5220	100	<u>Limestone</u> , tan - medium brown, I VFA, argillaceous, with occasional fossil fragments and occasional white anhydrite inclusions.	
5220	5225	50	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , light - medium gray, very calcareous, argillaceous, micaceous.	
5225	5230	30	<u>Limestone</u> , cream - tan, I VFA, fossiliferous, with white anhydrite.	
		70	<u>Shale</u> , medium - dark gray, calcareous, micaceous, fissile.	
5230	5235	60	<u>Limestone</u> , tan - gray, I/III VFA, sandy.	
		40	<u>Siltstone</u> , light - dark gray, argillaceous, micaceous, very calcareous.	
5235	5245	100	<u>Limestone</u> , I VFA, tan - medium brown, fossiliferous, sandy, with rare carbon fragments and rare translucent chert fragments.	

## DITCH SAMPLES

Examined by

4245 to 5335  
toWell White Mesa #2Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
5245	5250	40	<u>Limestone</u> , as above, with white anhydrite.	NOT
		60	<u>Shale</u> , brown - gray, calcareous, micaceous.	
5250	5265	80	<u>Shale</u> , gray, very calcareous.	NOT
		20	<u>Siltstone</u> , light - medium gray, argillaceous, calcareous.	
5265	5270	100	<u>Limestone</u> , cream - medium brown, I/III VFA, sponge spicules and abundant dark brown chert fragments.	NOT
5270	5280	100	<u>Limestone</u> , cream - medium brown, I/III VFA, argillaceous in party, cherty.	
5280	5290	100	<u>Limestone</u> , white - tan, I VFA, with fossil fragments, calcite crystals.	NOT
5290	5295	70	<u>Limestone</u> , as above, with fusilinids and crinoid stems.	
		30	<u>Shale</u> , medium - dark gray, calcareous, micaceous, fissile.	NOT
5295	5300	70	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , medium - dark gray, calcareous, micaceous, fissile.	NOT
5300	5305	100	<u>Limestone</u> , white - tan, very sandy in part, I VFA, with calcite crystals, argillaceous.	
5305	5310	70	<u>Siltstone</u> , light gray - brown, calcareous, argillaceous, micaceous, with occasional chert and pyrite.	NOT
		30	<u>Limestone</u> , as above.	
5310	5315	70	<u>Limestone</u> , tan - brown, I - III VFA, sandy in part, with coral fragments.	NOT
		30	<u>Siltstone</u> , light - medium gray, pyrite.	
5315	5325	80	<u>Limestone</u> , as above, argillaceous.	NOT
		20	<u>Shale</u> , green - gray, varicolored, with white anhydrite, mottled in part.	
5325	5330	70	<u>Limestone</u> , cream - tan, I VFA, with occasional pyrite crystals.	NOT
		30	<u>Shale</u> , brown - gray, silty.	
5330	5335	70	<u>Limestone</u> , as above, silty, argillaceous, with occasional white anhydrite crystals.	NOT
		30	<u>Shale</u> , brown - gray, silty.	

## DITCH SAMPLES

Examined by 5335 to 5440  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
5335	5340	70	<u>Limestone</u> , as above, with pyrite and brown chert.	
		30	<u>Shale</u> , gray, calcareous, micaceous.	
5340	5345	100	<u>Limestone</u> , cream - tan, I VFA.	
5345	5350	100	<u>Shale</u> , brown - gray, silty, very calcareous.	
5350	5355	100	<u>Shale</u> , brown - dark gray, calcareous, silty, mottled.	
5355	5360	70	<u>Shale</u> , as above, with pyrite.	
		30	<u>Limestone</u> , I VFA, pseudo oolitic (?), abundant fossil fragments.	
5360	5370	80	<u>Shale</u> , as above.	
		20	<u>Limestone</u> , I/III VFA, very sandy, tan - brown.	
5370	5375	60	<u>Limestone</u> , white - tan, I VFA, sandy, argillaceous fossils.	
		40	<u>Siltstone</u> , as above.	
5375	5380	60	<u>Limestone</u> , white - tan, IVFA, sandy, with abundant translucent chert fragments.	
		40	<u>Shale</u> , gray - brown, calcareous, micaceous.	
5380	5385	80	<u>Limestone</u> , as above.	
		20	<u>Shale</u> , as above.	
5385	5390	70	<u>Siltstone</u> , light gray - medium brown, calcareous.	
		30	<u>Limestone</u> , tan, I VFA, with occasional fossil fragments.	
5390	5400	100	<u>Limestone</u> , white - tan, I VFA, sandy in part.	
5400	5420	70	<u>Limestone</u> , white - tan, I VFA, slightly sandy, slightly cherty.	
		30	<u>Chert</u> , light gray - smoky.	
5420	5430	60	<u>Limestone</u> , as above.	
		20	<u>Chert</u> , as above, in part dark brown.	
		20	<u>Shale</u> , medium to steel gray, siliceous to calcareous.	
5430	5440	80	<u>Limestone</u> , I VFA, dark gray to dark brown - gray.	
		20	<u>Chert</u> , dark brown, black in part.	

## DITCH SAMPLES

Examined by 5440 to 5710  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5440	5455	100	<u>Limestone</u> , medium tan to medium gray - brown, I VFA.	
5455	5460	70	<u>Limestone</u> , dark gray, I VFA, slightly shaly.	
		30	<u>Shale</u> , dark gray - brownish black, very calcareous, silty to very fine, sandy in part.	
5460	5475	100	<u>Shale</u> , as above, well indurated.	
5475	5490	100	<u>Shale</u> , as above, black, very calcareous, silty.	
5490	5500	90	<u>Limestone</u> , I VFA, medium tan to medium brown.	
		10	<u>Sandstone</u> , fine grain, light gray, calcareous, dolomitic in part.	
5500	5546		Skip.	
5546	5550	80	<u>Shale</u> , black, slightly calcareous, dolomitic, some light gray.	
		20	<u>Dolomite</u> , I/III VFA, light gray to light tan.	
5550	5560	100	<u>Shale</u> , black, as above.	
5560	5565	40	<u>Shale</u> , black, as above.	
		40	<u>Dolomite</u> , III VFA, sandy (?) in part, slightly calcareous, very light gray to light tan.	
		20	<u>Limestone</u> , I VFA, dark to medium brown, dolomite (?).	
5565	5575	100	<u>Dolomite</u> , III/I VFA, very light gray, with some light green - gray, slightly calcareous, pyritic in part.	
5575	5675		Skip.	
5675	5680	100	<u>Shale</u> , black, calcareous - dolomitic, well indurated.	
5680	5695	100	<u>Shale</u> , black to medium brown, calcareous.	
5695	5700	100	<u>Limestone</u> , medium gray - medium tan, I VFA.	
5700	5705	50	<u>Limestone</u> , as above.	
		50	<u>Shale</u> , black to medium gray, varicolored in part.	
5705	5710	30	<u>Limestone</u> , as above.	
		70	<u>Shale</u> , as above.	

## DITCH SAMPLES

Examined by 5710 to 5830  
to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5710	5715	100	<u>Dolomite</u> , III/I VFA, medium gray, slightly sandy, calcareous.	
5715	5725	100	<u>Limestone</u> , I VFA, medium - dark gray, slightly dolomitic.	
5725	5740	100	<u>Dolomite</u> , III VFA, light - medium gray, with trace anhydrite, crystals.	
5740	5745	90	<u>Dolomite</u> , as above, some dark gray.	
		10	<u>Anhydrite</u> , white, crystalline.	
5745	5750	30	<u>Dolomite</u> , as above.	
		70	<u>Anhydrite</u> , as above.	
5750	5755	100	<u>Anhydrite</u> , as above.	
5755	5770	100	<u>Dolomite</u> , medium gray, I VFA.	
5770	5775	40	<u>Dolomite</u> , as above.	
		40	<u>Anhydrite</u> , as above.	
		20	<u>Shale</u> , black, dolomite with crystals - nodules, anhydrite.	
5775	5780	50	<u>Shale</u> , black - light gray, dolomite, slightly calcareous.	
		50	<u>Anhydrite</u> , white probably, interbedded with shale.	
5780	5795	100	<u>Dolomite</u> , light gray, I VFA, <u>pale yellow fluorescence, very slight yellow cut fluorescence.</u>	
5795	5800	10	<u>Limestone</u> , medium gray, I VFA, some anhydrite inclusions.	
		90	<u>Dolomite</u> , as above.	
5800	5815	100	<u>Dolomite</u> , III/I VFA, slightly calcareous.	
5815	5820	20	<u>Dolomite</u> , as above.	
		80	<u>Shale</u> , light gray - green, some light purple, variegated.	
5820	5825	100	<u>Shale</u> , light gray, silty, dolomite.	
5825	5830	25	<u>Anhydrite</u> , white, crystalline, somewhat massive.	
		75	<u>Dolomite</u> , I VFA, medium gray to tan.	

## DITCH SAMPLES

Examined by \_\_\_\_\_ 5830 to 6120  
\_\_\_\_\_ to \_\_\_\_\_Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
5830	5850	40	<u>Anhydrite</u> , as above.	
		30	<u>Shale</u> , black, -medium gray, dolomitic, calcareous.	
		30	<u>Dolomite</u> , as above.	
5850	5855	50	<u>Anhydrite</u> , as above.	
		50	<u>Dolomite</u> , as above, with anhydrite inclusions.	
5855	5860	80	<u>Dolomite</u> , as above, with anhydrite inclusions.	
		20	<u>Anhydrite</u> , as above.	
5860	5875	100	<u>Dolomite</u> , light - medium gray, III/I VFA, slightly sandy.	
5875	5880	100	<u>Dolomite</u> , as above.	
5880	5890	100	<u>Dolomite</u> , as above, with <u>5% pale yellow fluorescence, very pale yellow cut fluorescence.</u>	
5890	5895	100	<u>Limestone</u> , medium - dark brown, I VFA, slightly dolomitic in part.	
5895	5900	100	<u>Dolomite</u> , medium tan-medium gray, I/III VFA, calcareous.	
5900	5905	100	<u>Dolomite</u> , as above.	
5905	6035		Skip.	
6035	6050	100	<u>Dolomite</u> , medium brown - medium gray, I VFA, siliceous in part?	
6050	6060	100	<u>Dolomite</u> , as above, calcareous.	
6060	6065	100	<u>Limestone</u> , medium - dark gray, I VFA, dolomitic.	
6065	6070	100	<u>Dolomite</u> , medium brown, I VFA, slightly calcareous.	
6070	6075	100	<u>Limestone</u> , light - medium brown, I VFA, fossiliferous?	
6075	6080	100	<u>Limestone</u> , as above.	
6080	6085	100	<u>Limestone</u> , as above, becoming more dolomitic.	
6085	6100	100	<u>Limestone</u> , medium gray, I VFA, fossiliferous?	
6100	6115	100	<u>Limestone</u> , as above.	
6115	6120	90	<u>Limestone</u> , as above.	
		10	<u>Chert</u> , clear - smokey, white - light gray.	

DITCH SAMPLES

Examined by 6275 to 6365  
to \_\_\_\_\_

Well White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
6275	6280	40	<u>Shale</u> , varicolored (purple, red, light green, dark red, gray.)	NIT
		60	<u>Limestone</u> , tan - brown, I VFA.	
6280	6285	25	<u>Shale</u> , as above, predominate gray.	
		75	<u>Limestone</u> , tan - light brown, I VFA, with rare fusulinids.	
6285	6300	30	<u>Chert</u> , tan - brown, slightly calcareous (probably silicified limestone).	
		70	<u>Limestone</u> , tan - brown, I VFA.	
6300	6305	20	<u>Chert</u> , as above.	
		80	<u>Limestone</u> , as above.	
6305	6325	100	<u>Limestone</u> , light brown, I VFA.	
6325	6330	100	<u>Limestone</u> , white - light tan, I/II VFA.	
6330	6335	100	<u>Limestone</u> , as above, mottled red and yellow (appears weathered).	
6335	6340	70	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , varicolored, red, light green, purple, gray.	
6340	6345	100	<u>Limestone</u> , as above, with shale parting as above.	
6345	6355	100	<u>Limestone</u> , white, I/II VFA, with occasional tan - white chert fragments.	
6355	6360	25	<u>Shale</u> , varicolored as above.	
		75	<u>Limestone</u> , white - tan, occasional mottled light green and yellow, abundant red - tan chert fragments.	
6360	6365	50	<u>Shale</u> , varicolored as above. (Molas=6360).	
		50	<u>Limestone</u> , as above.	
15 minute circulation samples		100	<u>Shale</u> , light purple, light green, light gray, red, pink.	
30-45 minute circulation samples		100	<u>Shale</u> , as above.	

## DITCH SAMPLES

Examined by 6120 to 6275  
toWell White Mesa #2  
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED <u>NOT</u>
6120	6130	100	<u>Limestone</u> , tan - brown, I VFA, sandy, with gray, translucent chert fragments.	
6130	6140	100	<u>Dolomite</u> , white - tan, III FA.	
6140	6150	100	<u>Limestone</u> , tan - brown, I VFA, with gray translucent chert fragments.	
6150	6160	100	<u>Limestone</u> , white - tan, I/II VFA, with chert as above.	
6160	6165	70	<u>Limestone</u> , as above.	
		30	<u>Shale</u> , varicolored: red, purple, light green, gray.	
6165	6175	100	<u>Limestone</u> , white, I VF-MA.	
6175	6180	100	<u>Limestone</u> , white - tan, I/II VFA, oolitic in part, very sandy in part.	
6180	6190	100	<u>Limestone</u> , white, I VF-FA, siliceous.	
6190	6195	100	<u>Limestone</u> , tan - brown, III MA, foraminiferal bioclastic in part.	
6195	6200	100	<u>Limestone</u> , tan, III/ <sup>1</sup> VFA, with rare fossil fragments.	
6200	6205	100	<u>Limestone</u> , grayish brown, III/I VFA, very silty, argillaceous in part.	
6205	6215	60	<u>Limestone</u> , white - tan, I VF-IA - II VFA, sandy in part.	
		40	<u>Chert</u> , tan, translucent.	
6215	6220	100	<u>Limestone</u> , tan - brown, I-II VFA.	
6220	6225	100	<u>Limestone</u> , as above, fossiliferous.	
6225	6240	100	<u>Limestone</u> , light gray - tan, I/II VFA.	
6240	6245	100	<u>Limestone</u> , tan, I/II VFA, with occasional tan chert fragments.	
6245	6255	100	<u>Limestone</u> , tan, I VFA, sandy in part.	
6255	6260	100	<u>Limestone</u> , tan, III M-IA, foraminiferal bioclastic, sandy in part.	
6260	6265	100	<u>Limestone</u> , brown, I/II VFA.	
6265	6270	100	<u>Limestone</u> , brown - dark brown, I VFA, argillaceous in part.	
6270	6275	100	<u>Limestone</u> , brown - tan, I/II VFA, rare brown translucent chert fragments.	

SHELL OIL COMPANY

AREA OR FIELD White Mesa Area

WEEK ENDING \_\_\_\_\_

CORE RECORD

COMPANY Shell

CORE FROM \_\_\_\_\_ TO \_\_\_\_\_

LEASE AND WELL NO. White Mesa #2

CORES EXAMINED BY \_\_\_\_\_

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
1	5496	5546	48'				See Attach-
	5496	5498	2	<u>Limestone, medium gray, III VFA, sandy in part, very well indurated.</u>			
	5498	5499	1	<u>Limestone, grayish-tan, III VFA, sandy in part, fossiliferous, abundant chert in fractures, with 20% spotty medium yellow fluorescence, pale yellow cut fluorescence, faint petroleum odor, very well indurated.</u>			
	5499	5500	1	<u>Limestone, medium gray to mottled gray and tan, III FA, sandy in part, with very slight spotty fluorescence, no stain, no odor.</u>			
	5500	5501	1	<u>Limestone, medium gray, III VFA, slight 1% spotted yellow fluorescence, no stain.</u>			
	5501	5502	1	<u>Limestone, as above, with patches of I VFA, very slight spotty yellow fluorescence.</u>			
	5502	5504	2	<u>Limestone, medium gray, III VFA, with very slight yellow fluorescence, spotted, less than 1%.</u>			
	5504	5505	1	<u>Shale, calcareous and dolomitic, medium gray, with slight spotty yellow fluorescence.</u>			
	5505	5507	2	<u>Limestone, dolomitic, medium gray, III VFA, with very slight spotty yellow fluorescence, no stain, no odor, very well indurated.</u>			
	5507	5508	1	<u>Limestone, slightly dolomitic, grayish tan, I-II VFA, silty in part, no shows.</u>			
	5508	5509	1	<u>Limestone, dolomitic, medium gray, III VFA, with weak spotty faint yellow fluorescence, no stain, no odor, scattered pyrite, very well indurated.</u>			
	5509	5511	2	<u>Limestone, medium-dark tan, silty in part, fossiliferous, I-III VFA, with very slight spotted yellow fluorescence, no stain, no odor.</u>			
	5511	5512	1	<u>Limestone, medium-dark brown, I-III VFA, I-III VFA, argillaceous in part, silty in part, with very slight spotted yellow fluorescence.</u>			
	5512	5516	4	<u>Limestone, tan-gray, I-III VFA, with pyrite and anhydrite fracture fillings, no stain or odor but slight spotty yellow fluorescence.</u>			
	5516	5518	2	<u>Limestone, light tan, III VFA, fossiliferous, with no shows, very well indurated.</u>			
	5518	5519	1	<u>Limestone, light greenish gray, I-III VFA, fossiliferous, with 20% light yellow fluorescence and cut fluorescence, petroliferous odor, brown oil stain.</u>			
	5519	5520	1	<u>Limestone, as above, with spotty yellow 1% fluorescence, no stain or odor.</u>			
	5520	5521	1	<u>Limestone, light-medium gray, I-III VFA, abundant fossile, 70% medium yellow fluorescence, strong yellow cut fluorescence, brown oil stain, petroliferous odor, and pinpoint bleeding of light brown oil from pores, well indurated.</u>			

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

AREA OR FIELD White Mesa Area

CORE FROM \_\_\_\_\_ TO \_\_\_\_\_

CORE RECORD

COMPANY Shell

CORES EXAMINED BY \_\_\_\_\_

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
1	5521	5522	1	<u>Limestone, medium gray, I VFA, fossiliferous, 20% spotty yellow fluorescence, pale yellow cut fluorescence, petroliferous odor, brown oil stain.</u>			See Attached
	5522	5523	1	<u>Limestone, medium gray-tan, silty in part, 2% spotty yellow fluorescence, no odor, no stain, I VFA.</u>			
	5523	5524	1	<u>Limestone, medium gray-tan, I VFA, stylolitic, II VFA in part, no shows, hard.</u>			
	5524	5525	1	<u>Limestone, light-medium tan, I-II VFA-C<sub>20</sub>, with anhydrite filled vertical fracture, brown oil stain on vugs, pinpoint oil bleeding, 70% golden yellow fluorescence, medium yellow cut fluorescence, strong petroliferous odor.</u>			
	5525	5526	1	<u>Limestone, light gray to tan, I-III VFA-C<sub>10</sub>, with vertical fractures filled with anhydrite, black stain on vugs, somewhat fragmented, 70% golden yellow fluorescence and cut fluorescence, oily odor, very well indurated.</u>			
	5526	5527	1	<u>Limestone, medium gray-light tan, I-III VFA-C<sub>15</sub>, with black stain in vugs, 60% golden yellow fluorescence, medium yellow cut fluorescence, oily odor and pinpoint oil bleeding.</u>			
	5527	5528	1	<u>Limestone, I-III VFA-C<sub>10</sub>, as above, with pinpoint bleeding, golden yellow fluorescence (cut), medium yellow cut fluorescence, stain and odor.</u>			
	5528	5529	1	<u>Limestone, dolomitic, very light gray, I-II VFA, abundant dark gray inclusions, 50% golden yellow fluorescence, good cut fluorescence, some oil stain, slight odor.</u>			
	5529	5530	1	<u>Limestone, dolomitic, as above, with 80% strong golden yellow fluorescence.</u>			
	5530	5531	1	<u>Dolomite, very calcareous, very light tan-gray, I-II VFA, with strong yellow 50% fluorescence, medium yellow cut fluorescence, mild odor, brown stain, well indurated.</u>			
	5531	5532	1	<u>Dolomite, as above, with 1% dull yellow fluorescence, very pale yellow cut fluorescence, no odor.</u>			
	5532	5535	3	<u>Dolomite, limy, medium tan, silty in part, III VFA, very slight trace fluorescence.</u>			
	5535	5538	3	<u>Dolomite, limy, black, III VFA, very argillaceous, very silty, very slight trace fluorescence.</u>			
	5538	5544	6	<u>Shale, black very calcareous, well indurated, with very slight trace fluorescence.</u>			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).  
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING November 17, 1957

AREA OR FIELD White Mesa

CORE FROM 5577 TO 5627

CORE RECORD

COMPANY Shell

CORES EXAMINED BY E. Wright, B. Macomber

LEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DI
2	5577	5627	50	Shale, dolomite, limestone			As describe
	5577	5578	1	Shale, medium gray-gray green, no shows.	C		
	5578	5579	1	Shale, black, non-calcareous, slickensided, light yellow 30% uniform fluorescence along fractures, strong petroleum odor.	C		
	5579	5580	1	Dolomite, calcareous, medium gray-brown, IVFA, with oil iridescence, 90% uniform pale yellow fluorescence and cut fluorescence on vertical fractures, fairly strong petroleum odor, 90% oil stain, scattered pin-point light green-brown oil bleeding.			
	5580	5581	1	Dolomite, slightly calcareous, IVFA, light-medium gray, with anhydrite (?) crystals, 40% gold yellow to very pale yellow fluorescence, very pale yellow cut fluorescence, fairly strong petroleum odor, brown oil stain.			
	5581	5582	1	Dolomite, IVFA, light gray brown, no shows, occasional anhydrite crystals.			
	5582	5583	1	Dolomite, as above, with uniform 25% medium brown fluorescence and brown-black oil stain on fractures, gold yellow cut fluorescence, no odor.			
	5583	5585	2	Dolomite, as above, no anhydrite, no shows.			
	5585	5586	1	Dolomite, medium-dark brown, IVFA, argillaceous, with calcareous-filled vertical fractures, very weak odor, 70% uniform gold yellow fluorescence, pale yellow cut fluorescence, dark brown-black oil stain, scattered pin-point light brown oil bleeding.			
	5586	5587	1	Dolomite, medium brown, IVFA, vertical fractures filled with anhydrite (?) no shows.			
	5587	5588	1	Dolomite, medium brown, IVFA, interbedded with shale-black, slightly calcareous, slickensided, very hard with striations// bedded planes, 60% uniform red-brown and spotted gold yellow fluorescence, green-yellow cut fluorescence, black oil stain on fracture planes, pin point bleeding on core surface.			
	5588	5589	1	Dolomite, medium brown, calcareous-very calcareous, IVFA, stylolitic, with black, calcareous shale along stylolite's, 10% uniform + some spotty gold yellow fluorescence, pale yellow cut fluorescence, no odor.			
	5589	5589.5	0.5	Dolomite, medium brown, IVFA, slickensided, with carbonaceous shaly material and white dolomite along fractures, 25% spotted gold yellow fluorescence, pale yellow cut fluorescence, pin-point oil bleeding, no odor or stain.			
	5589.5	5590	0.5	Dolomite, as above, severely slickensided, with clear white dolomite + calcareous crystals on fractures, no shows.			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%), 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%), 2-CLAY OR SHALE AND SAND (SAND 25-60%), 3-SAND WITH SHALE STREAKS (SAND 60-90%), S-SAND (90-100%).

NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

WEEK ENDING November 17, 1957

SHELL OIL COMPANY

AREA OR FIELD White MesaCORE FROM 5577 TO 5627

## CORE RECORD

COMPANY Shell

CORES EXAMINED BY \_\_\_\_\_

LEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
2	5590	5590.5	1	<u>Dolomite</u> , medium gray-brown, IVFA, slightly calcareous-calcareous in part, scattered small black mafic minute crystals, no shows.			
	5590.5	5591	0.5	<u>Dolomite</u> , as above, stylolitic, <u>with uniform very pale yellow fluorescence on stylolites, minor pale yellow cut fluorescence, no odor, no stain.</u>			
	5591	5592	1	<u>Dolomite</u> , medium brown, IVFA, partially stylolitic, no shows.			
	5592	5594	2	<u>Dolomite</u> , as above, <u>with uniform gold yellow fluorescence covering fracture surfaces, pale yellow cut fluorescence, uniform brown oil stain on fractures, no odor.</u>			
	5594	5595	1	<u>Dolomite</u> , as above, with no shows.			
	5595	5595 $\frac{1}{2}$	1	<u>Dolomite</u> , medium-dark brown, IVFA, argillaceous, stylolitic, <u>30% uniform to spotty yellow oil fluorescence, pale yellow cut fluorescence, petroleum odor, black oil stain, light brown oil pin-point bleeding.</u>			
	5595 $\frac{1}{2}$	5596	1	<u>Dolomite</u> , medium-dark brown, calcareous, IVFA, with petroleum odor, <u>100% dark brown stain, 100% uniform to spotty yellow fluorescence, pale yellow cut fluorescence, light brown oil bleeding from pin-points.</u>			
	5596	5597	1	<u>Dolomite</u> , medium tan-brown, IVFA, interbedded with black carbonaceous (?) shale with <u>dolomite</u> inclusions in distorted laminae; <u>25% gold yellow-red brown spotty to uniform fluorescence, pale yellow cut fluorescence, black oil stain, mild odor, scattered pin point bleeding on core surfaces.</u>			
	5597	5598	1	<u>Dolomite</u> , medium-dark tan, IVFA, stylolitic, <u>with uniform yellow + brown fluorescence, on stylolitic's, gold yellow cut fluorescence, no odor, no stain.</u>			
	5598	5599	1	<u>Dolomite</u> , medium brown, IVFA, stylolitic, trace medium anhydrite crystals, with <u>70% mottled gold yellow-dark gold yellow fluorescence, gold yellow cut fluorescence, strong oil odor, black oil stain, pin-point, light brown oil bleeding scattered on core surface.</u>			
	5599	5600	1	<u>Dolomite</u> , medium brown, I/III VFA, partly stylolitic, anhydrite in thin laminae on vertical fractures, with no odor, dark brown oil stain on fractures, <u>with 10% pale yellow spotty fluorescence + pale yellow cut fluorescence on vertical fractures.</u>			
	5600	5601	1	<u>Dolomite</u> , medium brown I/III VFA, no shows.			
	5601	5602	1	<u>Dolomite</u> , medium tan I/III VFA, with vertical fractures, covered with thin calcite laminae, <u>with minor pale yellow fluorescence + very pale yellow cut fluorescence on fractures, minor dark brown oil stain, no odor.</u>			
	5602	5603	1	<u>Dolomite</u> , medium brown, I/III VFA, dense, no shows.			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). 5-SAND (90-100%).  
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

## SHELL OIL COMPANY

WEEK ENDING November 17, 1957

## CORE RECORD

AREA OR FIELD White MesaCORE FROM 5577 TO 5627COMPANY ShellCORES EXAMINED BY E. Wright, B. MacomberLEASE AND WELL NO. 2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION OIL-GAS CORE OR BIT
5603	5604	1		<u>Dolomite, as above, with anhydritic sections minute on fractures, minor (2-4%) yellow fluorescence, no visible cut fluorescence, minor stain, weak odor, all on fractures only.</u>			
5604	5606	2		<u>Dolomite, light tan III/I VFA, no shows.</u>			
5506	5507	1		<u>Dolomite, light tan, I/III VFA, no shows.</u>			
5507	5509	2		<u>Dolomite, medium tan, IVFA<sup>A</sup>, no shows.</u>			
5509	5510	1		<u>Shale, black, dolomite, slightly silty, with minor dark brown oil stain, uniform yellow fluorescence on fractures with pale yellow cut, no odor. Very well indurated.</u>	C		
5510	5511	1		<u>Dolomite, medium tan, IVFA, stylolitic, with 20% yellow fluorescence, yellow cut fluorescence. oil stain on stylolitic surfaces only.</u>			
5511	5512	1		<u>Dolomite, as above, but no stylolites or shows.</u>			
5512	5513	1		<u>Dolomite, dark gray, IVFA, with gold yellow uniform fluorescence + cut fluorescence on fracture planes.</u>			
5513	5514	1		<u>Dolomite, dark gray, IVFA, no shows.</u>			
5514	5515	1		<u>Dolomite, very hard, siliceous, IVFA, secondary crystal on fractures, medium gray-dark gray, with insignificant yellow fluorescence, confined to fractures, weak odor.</u>			
5515	5516	1		<u>Dolomite, dark gray, IVFA, very siliceous, with black chert nodules.</u>			
5516	5517	1		<u>Dolomite, dark gray-black, siliceous, argillaceous, very hard, IVFA, with 2-4% gold yellow spotty fluorescence and spotty stain, gold yellow cut fluorescence, weak odor.</u>			
5617	5619	2		<u>Dolomite, light tan, IVFA, no shows.</u>			
5619	5620	1		<u>Dolomite, dark gray, IVFA, anhydrite along vertical fractures, with 15% mottled pale-gold yellow fluorescence, pale yellow cut fluorescence, weak petroleum odor.</u>			
5620	5621	1		<u>Dolomite, as above, with 2-4% spotted yellow fluorescence on fractures, weak odor.</u>			
5621	5622	1		<u>Dolomite, medium brown,-black, IVFA, stylolitic in part, bleeding golden oil globules, with 80% shale very-yellow uniform fluorescence, very pale yellow cut fluorescence, strong petroleum odor, black oil stain.</u>			
5622	5625	3		<u>Limestone, medium tan, IVFA, slightly argillaceous, occasional medium green anhydrite crystals, no show.</u>			
5625	5627	2		<u>Shale, black, very well indurated, slightly dolomitic, micaceous (?) no shows.</u>	C		

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).  
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

CORE FROM 5627 TO 5677

CORE RECORD

AREA OR FIELD White Mesa

COMPANY Shell

CORES EXAMINED BY E. Wright

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
3	5627	5677	50'	Limestone, Shale Dolomite			
	5627	5628	1'	Shale, Medium Green and Light Red Mottle			
	5628	5629	1'	Limestone, Dark Gray to Black, I VFA, Anhydrite, Chert, with trace Dolomite along vertical fractures.			
	5629	5630	1'	Dolomite, Black, I VFA, inter bedded with Chert Milky to Dark Gray, Anhydrite, Shale Black, very Siliceous slightly Dolomitic.			
	5630	5632	2'	Dolomite, Medium Gray-Brown, I VFA, Calcareous, Very finely Sandy (Slightly)			
	5632	5633	1'	Limestone, Dark Brown, I VFA, Dolomitic, Argillaceous.			
	5633	5634	1'	Dolomite, Medium Brown, I VFA, Slightly Argillaceous.			
	5634	5635	1'	Shale, Slickensided, Trace of Show on Slickensides: Weak Pale Yellow Fluorescence, Weak Yellow Cut Fluorescence.			
	5635	5638	3'	Dolomite, Medium Gray, I VFA, Siliceous.			
	5638	5641	3'	Shale, Medium Brown, Dolomitic, Slightly Calcareous, interbedded with clear to Milky Anhydrite.			
	5641	5642	1'	Shale, As above, Anhydrite, Clear to Dark Brown and Black.			
	5642	5643	1'	Anhydrite, Medium Brown to Black, Inter Bedded with Dolomite, I VFA, Siliceous, Argillaceous.			
	5643	5644	1'	Dolomite, Medium Brown, I VFA, Siliceous.			
	5644	5648	4'	Anhydrite, Clear to Milky, Siliceous, Some Quartz Nodules.			
	5648	5649	1'	Shale, Black, Slightly Dolomitic.			
	5649	5650	1'	Dolomite, Medium Brown, I VFA, Siliceous.			
	5650	5652	2'	Dolomite, Dark to Medium Brown, I VFA, Siliceous.			
	5652	5653	1'	Dolomite, Medium to Dark Brown, I VFA, Occasional Anhydrite inclusions.			
	5653	5655	2'	Limestone, Dark Gray to Black, I VFA, Argillaceous.			
	5655	5657	2'	Limestone, As above, with Scattered Anhydrite inclusions.			
	5657	5658	1'	Limestone, As above, Abundant Anhydrite inclusions.			
	5658	5658.5	5-05'	Limestone, As above, With Stylolites.			
	5658.5	5659	05'	Dolomite, Medium Tan, I VFA, Very Slightly Pale Yellow Fluorescence, no Cut Fluorescence.			
	5659	5660	1'	Dolomite, As above, with Anhydrite inclusions. Very Faint Spotty Fluorescence 15% Very Slightly Cut Fluorescence, Very Faint Odor.			
	5660	5661	1'	Dolomite, As above, Calcareous in part, No Shows.			
	5661	5664	3'	Limestone, Light Tan, I VFA, Abundant Anhydrite inclusions.			
	5664	5665	1'	Limestone, As above, No Anhydrite.			
	5665	5666	1'	Limestone, Medium Gray to Brown, I VFA, Fossiliferous, Calcareous Shell Casts, Crinoid Stem.			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).  
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING \_\_\_\_\_

CORE FROM \_\_\_\_\_ TO \_\_\_\_\_

CORES EXAMINED BY \_\_\_\_\_

CORE RECORD

AREA OR FIELD \_\_\_\_\_

COMPANY \_\_\_\_\_

LEASE AND WELL NO. \_\_\_\_\_

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS
							OIL-GAS
							CORE OR DITC
3	5666	5667	1'	<u>Limestone</u> , Dark Gray to Black, I VFA, Argillaceous, Fossiliferous, Abundant Crinoid Stem.			
	5667	5670	3'	<u>Limestone</u> , Black, I VFA, Argillaceous, No Fossil.			
	5670	5677	7'	<u>Limestone</u> , Very Fine Grain, Argillaceous, Very well indurated, Black			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).  
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING November 24, 1957

CORE FROM 5905 TO 5987

CORES EXAMINED BY B. Macomber, E. Wright

CORE RECORD

AREA OR FIELD White Mesa

COMPANY Shell

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
4	5905	5937	30'				
	5905	5907	2'	<u>Dolomite</u> , dark gray, I VFA, slightly siliceous.			See Attach
	5907	5908	1'	<u>Dolomite</u> , as above, with interbedded <u>black shale</u> .			
	5908	5909	1'	<u>Dolomite</u> , as above, with <u>strong petroleum odor</u> .			
	5909	5910	1'	<u>Limestone</u> , dark gray, I VFA.			
	5910	5911	1'	<u>Dolomite</u> , medium - dark gray I/III VFA, siliceous, <u>medium petroleum odor</u> .			
	5911	5912	1'	<u>Dolomite</u> , as above, with interbedded <u>black shale</u> .			
	5912	5913	1'	<u>Dolomite</u> , III/I VFA-B <sub>10</sub> , with very <u>sour, strong petroleum odor, pinpoint bleeding from B pores, vertical fractures</u> .			
	5913	5914	1'	<u>Dolomite</u> , as above, with <u>faint odor</u> .			
	5914	5915	1'	<u>Dolomite</u> , I/III VFA, with black shale laminae.			
	5915	5917	2'	<u>Limestone</u> , I/III VFA, dolomitic, dark gray.			
	5917	5918	1'	<u>Limestone</u> , as above, with faint odor.			
	5918	5919	1'	<u>Limestone</u> , as above, argillaceous.			
	5919	5920	1'	<u>Limestone</u> , non-argillaceous.			
	5920	5921	1'	<u>Dolomite</u> , I VFA, dark gray, argillaceous with <u>strong petroleum odor</u> .			
	5921	5922	1'	<u>Dolomite</u> , as above, with large anhydritic inclusions, <u>very strong petroleum odor</u> .			
	5922	5923	1'	<u>Dolomite</u> , as above, with <u>faint odor</u> .			
	5923	5924	1'	<u>Dolomite</u> , III/I VFA-B <sub>5</sub> , dark gray, anhydritic, <u>with bleeding along fracture breaks, very strong odor</u> .			
	5924	5925	1'	<u>Dolomite</u> , as above, with <u>very strong odor</u> , no bleeding.			
	5925	5927	2'	<u>Limestone</u> , black, very argillaceous, slightly dolomitic, I VFA.			
	5927	5928	1'	<u>Dolomite</u> , dark gray - black, very argillaceous, I VFA, calcareous.			
	5928	5930	2'	<u>Limestone</u> , medium - dark gray, argillaceous, I VFA, fossiliferous.			
	5930	5932	2'	<u>Dolomite</u> , dark grayish brown, I/III VFA, slightly siliceous.			
	5932	5933	1'	<u>Dolomite</u> , as above, becoming calcareous, with black shale interbeds.			
	5933	5934	1'	<u>Dolomite</u> , as above, with <u>faint petroleum odor</u> .			
	5934	5935	1'	<u>Dolomite</u> , III/I VFA-B <sub>5</sub> -C <sub>5</sub> , medium gray - brown, <u>with uniform dark brown oil stain, very strong petroleum odor, pinpoint bleeding</u> .			

WEEK ENDING November 24, 1957

SHELL OIL COMPANY

AREA OR FIELD White Mesa

CORE FROM 5905 TO 5987

CORE RECORD

COMPANY Shell

CORES EXAMINED BY E. Wright, B. Macomber

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
5	5937	5987	50'				
	5937	5938.5	1.5'	<u>Dolomite, medium brown - gray III/I VF-A-B<sub>10</sub>, with uniform brown oil stain, very strong petroleum odor.</u>			As indicat
	5938.5	5941	2.5'	<u>Dolomite, as above, interbedded with black shale laminae, vertical fractures, 50% mottled stain, fair odor.</u>			
	5941	5943	2'	<u>Dolomite, dark gray, I VFA, siliceous, with shale laminae.</u>			
	5943	5944.5	1.5'	<u>Dolomite, as above, with white anhydritic nodules, very faint odor.</u>			
	5944.5	5947	2.5'	<u>Dolomite, medium brown, III/I VFA-B<sub>5</sub>, with uniform brown oil stain, strong odor.</u>			
	5947	5950	3'	<u>Dolomite, medium gray, I VFA, with thin black shale laminae, anhydrite inclusions.</u>			
	5950	5952	2'	<u>Dolomite, dark gray, I VFA, calcareous, with 1 -3" anhydrite bed.</u>			
	5952	5953	1'	<u>Dolomite, medium gray, I/III VFA-B<sub>Tr</sub>, with uniform gray - brown stain, medium odor.</u>			
	5953	5954	1'	<u>Dolomite, Limestone, mottled, medium - dark gray, I VFA.</u>			
	5954	5954.5	0.5'	<u>Limestone, dark gray, I VFA.</u>			
	5954.5	5958.5	3'	<u>Dolomite, dark brown, III/I VFA, with anhydrite inclusions, uniform dark brown oil stain, strong odor, becoming brown - gray, with weak oil bleeding.</u>			
	5958.5	5959	0.5'	<u>Shale, black</u>			
	5959	5960.5	1.5'	<u>Dolomite, dark gray, I VFA, argillaceous.</u>			
	5960.5	5961	0.5'	<u>Limestone, dark brown, I VFA, occasional anhydrite nodules.</u>			
	5961	5961.5	0.5'	<u>Dolomite, medium brown, I VFA, with weak uniform gray - brown oil stain, slight odor.</u>			
	5961.5	5962	0.5'	<u>Dolomite, as above, with calcareous on fractures, interbedded with fractures. Limestone, medium brown, I VFA.</u>			
	5962	5967	5'	<u>Limestone, medium gray I VFA, becoming stylolitic @ 5966.</u>			
	5967	5968	1'	<u>Limestone, medium gray, I VFA, dolomitic, argillaceous, with large anhydrite nodules.</u>			
	5968	5969	1'	<u>Dolomite, medium brown, I VFA-B<sub>Tr</sub>, uniform weak brown stain, fairly strong odor.</u>			
	5969	5972	3'	<u>Limestone, light brown, I/III VFA-B<sub>Tr</sub>, with dolomitic mottling (dark brown, I VFA), anhydrite nodules, strong oil odor, uniform light brown stain.</u>			
	5972	5973	1'	<u>Dolomite, medium - dark brown, I/III VFA-B<sub>5</sub>, with anhydrite inclusions, strong petroleum odor, uniform light brown stain.</u>			

SHELL OIL COMPANY

WEEK ENDING November 24, 1957

AREA OR FIELD White Mesa

CORE FROM 5905 TO 5987

CORE RECORD

COMPANY Shell

CORES EXAMINED BY E. Wright, B. Macomber

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATION
							OIL-GAS
							CORE OR DIT
5973	5976.5	3.5'		<u>Dolomite, as above, medium odor, dark brown stain.</u>			
5976.5	5980	3.5'		<u>Dolomite, calcareous dark brownish gray, I VFA, with anhydritic nodules, black shale laminae, becoming siliceous and less calcareous.</u>			
5980	5981	1'		<u>Dolomite, I VFA, dark brown, with uniform dark brown oil stain, strong odor.</u>			
5981	5983	2'		<u>Dolomite, as above, very cherty, badly fractured, strong odor, uniform dark brown stain.</u>			
5983	5985	2'		<u>Dolomite, medium brown, I VFA, anhydritic, with slight oil bleeding, uniform dark brown stain, strong odor.</u>			
5985	5987	2'		<u>Dolomite, medium brown, I/III VFA, with dark brown uniform oil stain, strong odor, saturated bleeding on core surface.</u>			
5987	5987.5	0.5'		<u>Anhydrite, hard, white, massive.</u>			

SHELL OIL COMPANY

WEEK ENDING November 24, 1957

CORE FROM 5987 TO 6037

CORES EXAMINED BY E. Wright, B. Macomber

CORE RECORD

AREA OR FIELD White Mesa

COMPANY Shell

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS
							OIL-GAS
							CORE OR DITCH
6	5987	6037	48.5'				As described
	5987	5988	1'	<u>Dolomite, medium brown, I VFA, uniform medium brown stain, strong petroleum odor, 40% golden yellow fluorescence, increasing to 100% at 5988'.</u>			
	5988	5989	1'	<u>Dolomite, as above, III VFA-B<sub>5</sub>, medium odor, 40% golden yellow fluorescence and brown stain.</u>			
	5989	5990	1'	<u>Dolomite, as above, III/I VFA, strong petroleum odor, uniform brown stain, 70% pale yellow - golden yellow fluorescence.</u>			
	5990	5990.5	0.5'	<u>Dolomite, as above, calcareous, I VFA, weak petroleum odor, spotty oil stain 20% fluorescence.</u>			
	5990.5	5991.5	1'	<u>Dolomite, calcareous, medium gray, I/III VFA, no show, stylolitic, becoming very calcareous @ 5991 with vertical fractures @ 5991.5.</u>			
	5991.5	5993.5	2'	<u>Dolomite, medium brown, non-calcareous, I/III VFA, with slight odor, uniform gray - brown stain, no fluorescence, and anhydrite inclusions.</u>			
	5993.5	5994	0.5'	<u>Dolomite, medium brown, I VFA, anhydritic, slight odor, slight oil stain.</u>			
	5994	5994.5	0.5'	<u>Dolomite, medium brown, I VFA-B<sub>15</sub>, very faint odor, no stain, no fluorescence, pinpoint porosity is scattered, irregular.</u>			
	5994.5	5995	0.5'	<u>Dolomite, as above, I/III VFA-B<sub>10</sub>, no show.</u>			
	5995	5996	1'	<u>Dolomite, light brown, I VFA, with light brown uniform stain, medium odor.</u>			
	5996	5997	1'	<u>Limestone, light brown, I VFA, with light brown uniform stain, very faint odor, very faint fluorescence.</u>			
	5997	5998	1'	<u>Limestone, as above, with some vertical fractures, argillaceous, stylolitic.</u>			
	5998	5999	1'	<u>Dolomite, medium brown, I VFA, with very faint odor, no stain.</u>			
	5999	6002	3'	<u>Dolomite, as above, with anhydrite inclusions, very faint odor, slight brown stain, becoming calcareous @ 6000.5 feet.</u>			
	6002	6003	1'	<u>Dolomite, very calcareous, I VFA, medium gray, with few black shale laminae.</u>			
	6003	6004.5	1.5'	<u>Dolomite, as above, less calcareous.</u>			
	6004.5	6008	3.5'	<u>Dolomite, dark gray, I VFA, with anhydrite nodules, interbedded with black shale.</u>			
	6008	6011	3'	<u>Limestone, medium tan, III/I VFA-B<sub>5</sub>, with very faint petroleum odor, no stain, dolomitic mottling, some vertical fractures.</u>			
	6011	6013	2'	<u>Dolomite, medium tan, I/III VFA.</u>			
	6013	6013.5	0.5'	<u>Limestone, medium brown, I/III VFA-B<sub>10</sub>, with faint petroleum odor, no stain.</u>			
	6013.5	6014.5	1'	<u>Limestone, light gray, I VFA.</u>			
	6014.5	6015	0.5'	<u>Dolomite, stylolitic, I VFA, no show.</u>			

SHELL OIL COMPANY

WEEK ENDING November 24, 1957

AREA OR FIELD White Mesa

CORE FROM 5987 TO 6037

CORE RECORD

COMPANY Shell

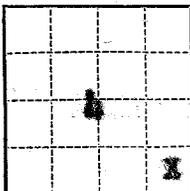
CORES EXAMINED BY E. Wright, B. Macomber

LEASE AND WELL NO. White Mesa #2

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCH
6	6015	6017	2'	<u>Dolomite</u> , I VFA, medium gray, <u>with faint odor, gray - brown stain,</u> no fluorescence.			As described
	6017	6027	10'	<u>Dolomite</u> , as above, with anhydrite nodules, <u>very faint odor, stylolitic,</u> vertical fractures @ 6019, becoming calcareous @ 6022, with thin black argillaceous laminae.			
	6027	6032	5'	<u>Dolomite</u> , very calcareous, dark gray, argillaceous, I VFA, becoming less calcareous @ 6030, siliceous @ 6031, with occasional anhydrite nodules.			
	6032	6033	1'	<u>Dolomite</u> , as above, calcareous.			
	6033	6034	1'	<u>Dolomite</u> , dark gray, I VFA, siliceous, slickensided, <u>with very slight petroleum odor,</u> no fluorescence.			
	6034	6035.5	1.5'	<u>Dolomite</u> , dark brown, I VFA-B <sub>5</sub> , badly fractured, with large anhydrite inclusions, <u>fairly strong odor,</u> no oil stain, no fluorescence.			

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. U-20-603-221

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)

December 4, 1957

White Mesa  
Well No. 72 is located 1627 ft. from N line and 651 ft. from E line of sec. 4

SE 4 130 24E 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 ~~surface~~ well floor above sea level is 5322.3 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)

WST #1 5156-5516. Init. shut in 1 hr. open 2 hrs., moderate blow, no gas to surface; final shut in 1 hr. Rec. 95' oily gas cut mud, ISIP 1500, IFF 100, WSIP 605 still increasing, PWP 29.5.

WST #2 5588-5677 (Desert Creek Zone) Initial shut in 30 min, open 1 hr, 30 min. Faint blow decreasing to dead in 55 minutes. Recovered 90' watery gas cut mud. No oil, IHP 2810, ISIP 50, IFF 40, PFP 40, 1.5 m. SIP 1230 (still rising)

WST #3 5917-6037, Init. SIP 30 min, open 2 hrs., Mod. blow, gas to surf. 1 hr. 33 min. flow press. 4 psi., 3/8" orifice. 1-1/2 hr. final shut in. ~~Flow~~ ~~tester. 600' rise oily, gassy, watery mud. Recovered 320' (2.6 B) Heavily gas cut oily mud and 130' (1.0 B) gas cut oily water maximum salinity 32,000 ppm (t) (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 101 South Debrand  
Farmington, New Mexico

By B. W. Shepard  
B. W. Shepard  
Title Exploitation Engineer

NACL, Mud before test, 1500 ppm (t) ISIP 2150, IFF 200, FFP 350, FSIP 1800,  
HP 3400.

DST #4 5525-5564 30 min. init. shut in, 2 hr. flow period, 1 hr final shut  
in. Rec. 430' as follows: 400' salt water-cut mud, 30' ali. muddy salt water.  
ISIP 2300, IFF 50, FFP 200, FSIP 1400, HP 3100.

DEC 11 1957

JAN 21 1958

Budg. 42-R355.4  
 Appro. 12-31-60.

15

U. S. LAND OFFICE Window Rock, Ariz.  
 SERIAL NUMBER 14-20-603-221  
 LEASE OR PERMIT TO PROSPECT \_\_\_\_\_


UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

H  
 1-27-58

**LOG OF OIL OR GAS WELL**

LOCATE WELL CORRECTLY

Company Shell Oil Company Address 101 S. Behrend, Farmington, N.M.  
 Lessor or Tract Tribal-White Mesa Field Wildcat State Utah  
 Well No. 2 Sec. 4 T. 43S R. 24E Meridian SLBM County San Juan  
 Location 4627 ft.  $\left\{ \begin{matrix} N. \\ S. \end{matrix} \right\}$  of N Line and 651 ft.  $\left\{ \begin{matrix} E. \\ W. \end{matrix} \right\}$  of E Line of Sec. 4 Elevation 5322.3 KB  
(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 \_\_\_\_\_

Date January 15, 1958 Title Exploitation Engineer

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

Commenced drilling October 20, 19 57 Finished drilling December 2, 19 57

**OIL OR GAS SANDS OR ZONES**  
(Denote gas by G)

No. 1, from none to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

**IMPORTANT WATER SANDS**

No. 1, from none to \_\_\_\_\_ 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-	
<u>8-5/8"</u>	<u>24#</u>	<u>8</u>	<u>Baker</u>	<u>11/2</u>	<u>Baker</u>				<u>Surface</u>

**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>1154</u>	<u>275</u>	<u>Displacement</u>		

**PLUGS AND ADAPTERS**

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

FOLD | MARK

FOLD MARK

8-5/8"	1154	275	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 cut

**TOOLS USED**

Rotary tools were used from 0 feet to 6365 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**

December 3, 1957 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**

T. B. Cagle \_\_\_\_\_, Driller Exeter Drilling Co.  
 G. Wilson \_\_\_\_\_, Driller  
 A. Gary \_\_\_\_\_, Driller M. L. Pershall \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
1610	2350	740	Chinle
2350	2470	120	Shinarump
2470	2580	110	Moenkopi
2580	4538	1958	Cutler
4538	5542	1004	Upper Hermosa
5542	6354	812	Paradox
6354	-	-	Molas

✓

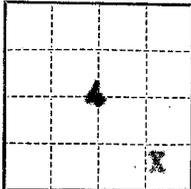
(SUBMIT IN TRIPPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal lands

Lease No. 14-20-603-221



7-A  
4-28

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	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	X
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 21, 1958

White Mesa  
Well No. #2 is located 4627 ft. from N line and 651 ft. from E line of sec. 4

SE 4 (¼ Sec. and Sec. No.)      439 (Twp.)      24E (Range)      SLM (Meridian)  
Wildcat (Field)      San Juan (County or Subdivision)      Utah (State or Territory)

The elevation of the Kelly Bushin ~~structure~~ above sea level is 5322 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)

Abandonment Work:

- 12-2-57 Plugged as follows:  
70 sacks cement at 5575'  
70 sacks cement at 4535'  
70 sacks cement at 2515'  
45 sacks cement at 1200'
- 12-3-57 Found top of cement @ 1102'. Plugged top of casing with 10 sacks cement cap. Placed marker and abandoned in accordance with U.S.G.S. regulations.

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 101 S. Behrend Ave.

Farmington, N. M.

Original signed by  
R. S. MacALISTER, JR.

By \_\_\_\_\_

Title Division Exploitation Engineer