

Scout Report sent out



Noted in the NID File



Location map pinned



Approval or Disapproval Letter



unit

Date Completed, P. & A, or
operations suspended

3-10-59

Pin changed on location map



Affidavit and Record of A & P



Field Check-Off Test



Gaswell Ratio Test



Well Log Filed



qs Lane 1-14-59

Expanding the unit

Have tent app of uses

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed **3-10-59**

GW..... WW..... TA.....

GW..... OS..... PA.

Location Inspected _____

Bond posted _____

State of Fee Land _____

LOGS FILED

Driller's Log **4-20-59**

Electric Logs (No.) **5**

E..... I..... E-I GR..... GR-N Micro.....

Lat. Mi-L Sonic Others.....

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER UO 3277
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

3-10
N-H

State Utah County Emery Field Wildcat - Gravers Mesa

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1959,

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

Farmington, New Mexico Signed H. W. SHEPARD

Phone DAvis 5-8811 Agent's title Exploitation Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS 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)
NE NW	25S	16E	2	-	-	-	-	-	-	Spudded 1-21-59. Fishing at 3360' as of 1-31-59.

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)

Land Office Salt Lake City, Utah

Lease No. U C 32777

Unit _____

	X		
	10		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING 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)

JAN 14, 1959

Cravers Mesa
Well No. 2 is located 696 ft. from N line and 1843 ft. from W line of sec. 10
SW 10 (1/4 Sec. and Sec. No.) 25E (Twp.) 16E (Range) 36M (Meridian)
Wilcox (Field) Henry County (County or Subdivision) Utah (State or Territory)

The elevation of ~~the casing~~ the casing is 4728 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 13 3/4" hole to 600'±
2. Cement 10 3/4" casing at 600'± with 300 sacks cement.
3. Drill 9" hole to 7370'± (objectives Pennsylvanian and Mississippian carbonates.)
4. If commercial production is obtained a supplementary completion notice will be issued, otherwise plug and abandon.

Surface formation is Entrada

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

R 16E

S 89°-55'W
2638.42

696'

1843' #2

N 0°-03'W
2640'

T 25S

10



ELEV. DATA

Ground 4738
Matt
D.F.
K.B.
B.M.

This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision and that they are true and correct to the best of my knowledge and belief.



Geo. L. Baker
2158

DRAWN BY B.H.F
CHECKED BY
DATE 1-13-59

SHELL OIL COMPANY

SCALE 1"=1000'
Z-20-1093

Location of Gruvers Mesa #2
Emery County Utah Sec. 10, T25S, R16E, S.L.B.&M.

January 15, 1959

Shell Oil Company
705 West Municipal Drive
Farmington, New Mexico

Attention: B. W. Shepard, Exploitation Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Gruvers Mesa 2, which is to be located 696 feet from the north line and 1843 feet from the west line of Section 10, Township 25 South, Range 16 East, S1EM, Emery 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

CLYDE B. FEIGHT
EXECUTIVE SECRETARY

CBF:co

cc: Don Russell, Dist. Eng.
USGS, Federal Building
Salt Lake City, Utah

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City, Utah

Lease No. BD 32777

Unit _____

	X		
	10		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

21-14
3-10

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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)

..... January 25,, 19 59

Well No. Grubers Mass 2 is located 696 ft. from N line and 1843 ft. from W line of sec. 10

10 (1/4 Sec. and Sec. No.) 25S (Twp.) 16E (Range) SLM (Meridian)

Wildcat (Field) Emery County (County or Subdivision) Utah (State or Territory)

The elevation of the Kelly Bushing ~~general base~~ above sea level is 4751 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 1-21-59

1-22-59 Ran and cemented 10-3/4", 40.5#, J-55 casing at 573' with 300 sacks
to cement, last 100 sacks treated with 2% calcium chloride. Good returns
1-23-59 to surface. Flanged up and waited on cement. Pressure tested casing
and BOP with 800 psi for 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 705 West Municipal Drive

Farmington, New Mexico

Original signed by
B. W. SHEPARD
By _____

B. W. Shepard
Title Exploitation Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER UO 3277
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Emery Field Wildcat - Cravers Mesa

The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 1959,

Agent's address 705 West Municipal Drive Company Shell Oil Company
Farmington, New Mexico Signed E. W. SHEPARD

Phone Davis 5-8811 Agent's title Exploitation Engineer

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)
10 NE NW	25S	16E	2	-	-	-	-	-	-	Drilling at 7019' as of 2-28-59.

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City, Utah
LEASE NUMBER UO 3277
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Emery Field Wildcat-Crawlers Mesa

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1959.

Agent's address 705 West Municipal Drive Company Shell Oil Company
Farmington, New Mexico Signed Original signed by
B. W. SHEPARD

Phone Davis 5-8811 Agent's title Exploitation Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS 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)
10 NE NW	25S	16E	2	-	-	-	-	-	-	Drilled to TD of 7392'. Abandoned 3-10-59.

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.

Wildcat

DRILLING REPORT

FOR PERIOD ENDING

February 11, 1959

Gruvers Mesa

(SECTION OR LEASE)

10-T25S-R16E

(TOWNSHIP OR RANCHO)

(FIELD)

Emery Co. Utah

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
1-21 to 1-22	0	595	Location: 1843.8' from West line and 696.7' from North line. Sec. 10, T25S, R16E, Emery County, Utah. Elevation: D.F. 4749' K.B. 4751' G.L. 4738' Spud in at 1:00 AM, 1-21-59. Drilled 595'. Ran 8 Jts. 10-3/4", 40.5#, J-55 casing (Made in Italy) bottom 4 Jts. made up with "Bakerlock" compound. Pipe stuck while trying to circulate to bottom - cemented pipe 22' off bottom at 573' with 225 sacks reg. cmt. & 100 sacks reg. cmt. treated with 2% CaCl ₂ . Plug down at 9:45 PM 1-22-59. WOG.
1-23	595		WOG 26 hours. Pressured up on casing with 700 psi, for 30 minutes, OK.
1-24 to 1-26	595	2184	Drilled 1589'.
1-27	2184	2431	Drilled 247'. Lost circulation. Lost approximately 150 bbls. mud slowly in the interval 2200-50.
1-28 to 1-30	2431	3136	Drilled 705'
1-31	3136	3294	Drilled 158' at 3194'. Twisted off at crossover sub from 4 1/2" D.P. to 6 1/2" collars. Recovered with over-shot after 2 trips.
2-1 to 2-10	3294	4546	Drilled 1252'.

Ave. Mud Properties
9.3# / 37 / 7 / 1/32 / 12

Ave. daily treatment
200 lbs Caustic
100 lbs Ray flow
1 sack Driscose
4 sacks gel

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4"	0	595	10-3/4	573' (325 sacks)
9 "	595			
DRILL PIPE 4 1/2" FH SIZES				

L. L. Ambert and C. Woodward

Wildcat

DRILLING REPORT

FOR PERIOD ENDING

Gruvers Mesa

(SECTION OR LEASE)

(FIELD)
Emery Co., Utah
(COUNTY)

3-9-59

10-T25S-R16E

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
3-2 to 3-6	7092	7393	Drilled 301'.
3-6 to 3-8		7393	Ran Schlumberger Laterolog, microlaterolog, Gamma Ray-Neutron, and Gamma Ray Sonic Surveys. Ran Seismic velocity check survey.
3-8		7393	Ran DST #2 (6749-6807) Hookwall Straddle Test. Weak blow decreasing to steady faint. Recovered 330' (2.2 B) muddy salt water. (Salinity 287,000 ppm; mud before test 292,000 ppm.) ISIP 2715 (Shut in 60 minutes) FSIP 2550 (Final shut in 2 hours) IFP/FFP 30/175 (open 2 hours) HP 3875 Johnston Testers Lowest pressure on bomb below bottom packer - 2790 psi. i.e., bottom packer held OK.
3-9		7393	Set cement plugs as follows: 6725' - 75 sacks. 4250' - 25 sacks. 2200' - 25 sacks. 584' - 60 sacks. After 4 hours located top plug at 554'. Released rig at 9:15 P.M. 3-9-59. Installed marker, plugged and abandoned 3-10-59.

Contractor: Great Western Drlg. Co.
 Drillers: A. J. Mitchell
 S. E. Garwin
 B. R. Day
 Pusher: D. Beard
 Co. Pusher: R. A. Standifer

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4"	0	595	10-3/4	573
9"	595	7393		
DRILL PIPE SIZES			4-1/2	

L

DRILLING REPORT
FOR PERIOD ENDING

3-2-59

Section 10

(SECTION OR LEASE)

T2S R16E

(TOWNSHIP OR RANGE)

Wildcat

(FIELD)

Emery

(COUNTY)

DAY	DEPTH		REMARKS
	FROM	TO	
2-11 to 2-12	4546	4552	Strapped out of the hole at 4546', corrected depth to 4552'. Ran Schlumberger logs: Induction-Electrical survey from T.D. (4552') to shoe of surface casing. Gamma Ray-Neutron from T.D. (4552') to surface. Converted 550 barrels of high pH Sodium Driscose mud to a salt water mud by adding 730 sacks salt, 62 sacks salt gel, 60 sacks starch & 150 barrels of water.
2-12 to 3-1	4552	7067	Drilled 2515'.
3-1 to 3-2	7067	7092	Cored 25', Core 1 7067-7092'. Cut 25', Recovered 25'.
3-2		7092	DST #1 (6898'-7092'). Ran Four R's Testing Company, using their 3-way shut-in tool. Set packers and opened hydraulic valve 4:20 pm. Closed tool for initial shut-in after 1 minute +. Opened tool 5:05 pm. Strong air blow for 20 minutes, gradually decreasing to dead at end of 50 minutes; dead rest of 65 minute test. Closed tool for final shut-in 6:10 pm. Pulled packers 7:40 pm. Recovered 5865' (80.1 B.) net, including 1470 (20.2 B.) muddy salt water and 4395' (60.1 B.) salt water. Salinity leveled off at 96,000 ppm. NaCl (t). Mud before test had 294,000 ppm. NaCl.

Pressures: ISIP 2942 psi. (45 minutes)
IFP 2472 psi.
FFP 2942 psi.
FSIP 2942 psi. (90 minutes)
HP 4232 psi.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
3-3/4"	0	595	10-3/4	573'
9"	595	7092		
DRILL PIPE SIZE			4-1/2	

3

L. L. Aubert and C. Woodward

SIGNED

DITCH SAMPLES

Examined by Woodward 6480 to 6540
Shepard 6540 to 6772

Well Gruver's Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
6480	90	40	<u>Dolomite</u> , light brown, IVFA, flesh colored, minimum fluorescence.	
		40	<u>Anhydrite</u> , white, chalky.	
		20	<u>Siltstone</u> , grey to brown, quartz, dolomite cemented 10-20%, firm, tight.	
6490	6500	80	<u>Siltstone</u> , as above.	
		20	<u>Anhydrite</u> , white, chalky & crystalline.	
		60	<u>Siltstone</u> , as above.	
6500	10	30	<u>Anhydrite</u> , as above.	
		10	<u>Limestone</u> , light brown, IVFA.	
		80	<u>Anhydrite</u> , chalky.	
6510	20	20	<u>Siltstone</u> , as above.	
6520	40	100	<u>Anhydrite</u> , white, chalky with siltstone & shale partings.	
6540	60	50	<u>Siltstone</u> , as above.	
		50	<u>Anhydrite</u> , as above.	
6560	6610	100	<u>Limestone</u> , brown, grey, IVFA.	
6610	30	80	<u>Siltstone</u> , grey, firm.	
		20	<u>Limestone</u> , as above.	
6630	6650	50	<u>Siltstone</u> , green.	
		50	<u>Limestone</u> , cream and tan, I-IIVFA.	
6650	6720	100	<u>Shale</u> , brick red.	
6720	65	100	<u>Limestone</u> , white, tan, I & IIVFA.	
6765	70	100	<u>Dolomite</u> , brown, IIIVFA, <u>50% dull yellow fluorescence & Pale cut fluorescence.</u>	
6770	72	50	<u>Dolomite</u> , as above with <u>20% fluorescence & cut fluorescence as above.</u>	
		50	<u>Limestone</u> , white, tan, I & IIVFA.	

DITCH SAMPLES

Examined by Shepard 6772 to 7067
 _____ to _____

Well Gruver's Mesa 2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
6772	85		<u>Dolomite, light brown, III & IVFA, 10% dull yellow fluorescence & pale cut fluorescence.</u>	
6785	6810		<u>Dolomite, as above, with 3% fluorescence & cut fluorescence as above.</u>	
6810	25		80% <u>Limestone, white I & IIVFA,</u> 20% <u>Dolomite, as above with 1% fluorescence & cut fluorescence.</u>	
6825	30		<u>Dolomite, tan, III & IVFA.</u>	
6830	90		<u>Limestone, white, IIVFA.</u>	
6890	6910		<u>Limestone, tan, IVFA, light brown chert.</u>	
6910	15		<u>Dolomite, tan, III & IVFA with trace B porosity.</u>	
6915	20		<u>Dolomite, tan, III & IVFA + 2B₂.</u>	
6920	30		<u>Dolomite, tan, IIVFA + 2B₂C₁.</u>	
6930	50		<u>Dolomite, tan & white, IIVFA + trace B.</u>	
6950	55		<u>Dolomite, white, IIIMA + 5C₃ + D₁.</u>	
6955	60		No Sample.	
6960	65		<u>Dolomite, white, IIIMA + 4B₂C₂.</u>	
6965	70		<u>Dolomite, white, IIIMA + 1B₁C₁.</u>	
6790	7000		<u>Dolomite, white, IIIMA + Trace B & C.</u>	
7000	7050		<u>Dolomite, white, IIIMA + 1C₁D₁.</u>	
7050	7067		<u>Dolomite, white, IIIMA + 2B₁C₂.</u>	

DITCH SAMPLES

Examined by Aubert 7092 to 7393 (t.d.)
 _____ to _____

Well Gruvers Mess 2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
7067	7092		Cored (See Core Description)	
7092	7120	100	<u>Dolomite</u> , white to tan, IIIIF-MA + B ₂₋₃ + C ₁ .	
7120	70	100	<u>Dolomite</u> , white to tan, IIIIVF-FA + B ₂₋₃ + C _{tr} .	
7170	7240	100	<u>Dolomite</u> , white to tan III/I VF-F + B ₁ + C _{tr} . becoming siliceous in part. tr. <u>Chert</u> , white to tan, translucent.	
7240	80	100	<u>Dolomite</u> , tan to light brown, I/III VFA + B _{tr-1} . tr. <u>Chert</u> , brown, translucent.	
7280	7330	100	<u>Dolomite</u> , white to tan, III/I VF-FA + B ₁ + C _{tr} .	
7330	50	100	<u>Dolomite</u> , tan to light brown, I-I/III VFA + B _{tr} + C _{tr} .	
7350	70	100	<u>Dolomite</u> , light to medium brown, III/I VF-FA.	
7370	80	100	<u>Dolomite</u> , light to dark brown, I/III VFA.	
7380			Tentative Sample Top Devonian - Ouray Fm.	
7380	85	100	<u>Dolomite</u> , light to dark brown, III/I VF-FA, calcareous.	
7385	93	100	<u>Limestone</u> , buff to light grey, I/II VFA, dolomitic.	
T. D.	7393			

X		
	10	

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Salt Lake City, Utah

Lease No. U-032777

Unit _____

W-H
3-10

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 RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING 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)

March 5, 1959

Gruvers Mesa

Well No. 2 is located 696 ft. from N line and 1843 ft. from E line of sec. 10

NW 10

($\frac{1}{4}$ Sec. and Sec. No.)

25 S

(Twp.)

16 E

(Range)

S.L.B.M.

(Meridian)

Wildcat

(Field)

Emery County

(County or Subdivision)

Utah

(State or Territory)

Kelly Dushing

The elevation of the ~~top of casing~~ above sea level is 4751 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)

3-2-59

DST #1

6896 - 7092 Initial shut in 45 min., open 1 hour, final shut in $\frac{1}{2}$ hours, Good blow 50 minutes - dead remainder of test. Recovered 5865' salt water ISIP 2942, IFP 2472, FFP 2942, SIP 2942, HP 4232.

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
E. W. SHEPARD

By _____

E. W. Shepard

Title Exploitation Engineer

SHELL OIL COMPANY

WEEK ENDING March 7, 1959

AREA OR FIELD Wildcat

CORE FROM 7067 TO 7092

CORE RECORD

COMPANY Shell

CORES EXAMINED BY B. W. Shepard

LEASE AND WELL NO. Gruvers Mesa 2

NO.	FROM	TO	RECOV. ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL-GAS
							CORE OR DITCI
1	7067	7092	25'				
	7067	7072	5'	<u>Dolomite</u> , tan to gray, III MA + B ₂			None
	7072	7075	3'	<u>Dolomite</u> , medium gray, III MA + B ₃ C ₁			
	7075	7082	7'	<u>Dolomite</u> , medium gray, III MA + B ₂			
	7082	7087	5'	<u>Dolomite</u> , tan to gray, III MA + B ₃			
7087	7092	5'	<u>Dolomite</u> , tan to gray, III MA + B ₂				

28

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.

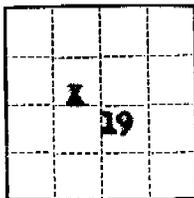
(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. U 0 14152

Unit _____

718
330



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING 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)

March 9, 1959

Grubers Mesa

Well No. 2 is located 1980 ft. from N line and 2845 ft. from W line of sec. 19

SE 19
(1/4 Sec. and Sec. No.)

25S
22S
(Twp.)

16E
(Range)

SLM
(Meridian)

Wildcat
(Field)

Emery
(County or Subdivision)

Utah
(State or Territory)

The elevation of the ~~domestic floor~~ Kelly Bashing above sea level is 4774 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: 7392'
Casing: 10-3/4" @ 573'
Hole Size: 7-7/8" from 573 to 7392'

Reason for Abandonment - "Dry Hole".

Proposed Work:

1. With open end drill pipe, plug as follows:
 - a. 75 sacks at 6725'
 - b. 25 sacks at 4250'
 - c. 25 sacks at 2200'
 - d. 60 sacks at 584'

(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

Original signed by
B. W. SHEPARD

By B. W. Shepard
Title Exploitation Engineer

Land Office Salt Lake City, Utah

Lease No. U O 32777

Unit _____

7/18 4/3

X			
	10		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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)

March 25, 1959

Cravers Mesa

Well No. 2 is located 696 ft. from N line and 1843 ft. from W line of sec. 10

10
(¼ Sec. and Sec. No.)

25S 16E
(Twp.) (Range)

SLBM
(Meridian)

Wildcat
(Field)

Emery
(County or Subdivision)

Utah
(State or Territory)

Kelly Bushing

The elevation of the top of Kelly Bushing above sea level is 4751 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)

3-3-59 DBT #2 6749-6807 Initial shut in 30 minutes, open 2 hours, final shut in 2 hours; weak blow decreasing to faint at end of test. Recovered 330 (2.2 bbls) muddy salt water -- 287,000 ppm. ISIP 2715, IPP 30, FFF 175, FSIP 2550, HP 3865.

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
E. W. SHEPARD

By E. W. Shepard
Title Exploitation Engineer

MUDDING AND CEMENTING RECORD

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	573	325	Displacement	--	--

PLUGS AND ADAPTERS

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

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

TOOLS USED

Rotary tools were used from 0 feet to 393 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

March 10, 1959 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 Great Western Drilling Company

A. J. Mitchell _____, Driller S. E. Garvin _____, Driller
 E. R. Jay _____, Driller _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
484	778	294	Kayenta
778	1072	294	Wingate
1072	1375	303	Chinle
1375	1426	51	Shinarump
1426	2160	734	Moenkopi
2160	2377	217	Cocconino
2377	2710	333	Cutler
2710	4006	1296	Fern. Carbonates
4006	4503	497	Hermosa
4503	4546	43	P-60 Marker
4546	6618	2072	Salt
6618	6717	89	Molas
6707	7365	658	Bedwall
7365	--	--	Ouray

DITCH SAMPLES (Interpretive Log)

Examined by Seeley 0 to 740
Aubert to 740

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
<u>Surface - Carmel FM</u>				
0	10		No Sample.	
10	40		<u>Siltstone</u> , maroon, calcareous, argillaceous, occasional very fine quartz grains.	
<u>Tentative Sample Top Navajo FE 40'</u>				
40	440	100	<u>Sandstone</u> , orange, very fine to medium, dolomite, well rounded quartz grains.	
<u>Tentative Sample Top Kayenta FE 440'</u>				
440	470	100	<u>Sandstone</u> , pale maroon to orange, very fine, slightly dolomitic.	
		tr.	<u>Sandstone</u> , white, very fine.	
<u>Tentative Sample Top Wingate 470'</u>				
470	500		No Sample.	
500	30	100	<u>Sandstone</u> , orange (occasional green very fine to fine with occasional with red medium quartz grains.)	
530	50	100	<u>Sandstone</u> , white, very fine interbedded with occasional Shale, pale green.	
550	80	100	<u>Sandstone</u> , pale maroon to orange very fine to fine with occasional Shale as above.	
580	620	100	<u>Sandstone</u> , as above, white, orange to maroon, very fine to medium with occasional Shale as above.	
620	50	100	<u>Sandstone</u> , orange silty to very fine with occasional Shale, maroon.	
650	70	100	<u>Sandstone</u> , white to maroon very fine to fine to slightly silty.	
670	80	100	<u>Shale</u> , maroon, silty.	
680	90	100	<u>Sandstone</u> , white, very fine to fine interbedded with Shale maroon.	
690	700	100	<u>Siltstone</u> , maroon, argillaceous.	
700	20	100	<u>Shale</u> , maroon interbedded with sandstone white to maroon, very fine to fine.	
720	40	100	<u>Sandstone</u> , maroon very fine to fine interbedded with Shale, maroon and green.	

DITCH SAMPLES

Examined by Seeley 740 to 1360
Aubert 740 to 1360

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
740	60	100	<u>Sandstone</u> , white very fine with Shale as above.	
760	70	100	<u>Shale</u> , maroon interbedded with Sandstone, maroon very fine.	
770	950	100	<u>Sandstone</u> , very fine to silty, very slightly dolomitic.	
			Sample Description uncertain due to very poor quality of samples - contractor mixing mud.	
950	1100	100	<u>Sandstone</u> , maroon to orange, very fine, slightly dolomitic.	
<u>Tentative Sample Top Chinle 1100'</u>				
1100	40	100	<u>Siltstone</u> , maroon, dolomitic, micaceous.	
		tr.	<u>Shale</u> , green, silty.	
1140	1160	100	<u>Siltstone</u> , as above interbedded with occasional sandstone, maroon very fine & shale maroon.	
1160	1200	100	<u>Siltstone</u> , maroon, slightly dolomitic, micaceous, with occasional sandstone maroon, very fine.	
		tr.	<u>Shale</u> , green.	
1200	10	100	<u>Sandstone</u> , maroon, very fine mottled green, dolomitic, argillaceous, micaceous.	
1210	20	100	<u>Sandstone</u> , as above with coarse limestone pellets tan, IVFA.	
1220	40	100	<u>Siltstone</u> , maroon to lavender, dolomitic, micaceous.	
1240	60	100	<u>Siltstone</u> , maroon, mottled pale green, dolomitic, argillaceous, micaceous.	
1260	80	100	<u>Siltstone</u> , maroon, dolomitic, micaceous, occasional interbedded with shale, maroon.	
1280	1300	100	<u>Shale</u> , maroon, silty, dolomitic.	
		tr.	<u>Shale</u> , pale green.	
1300	40	100	<u>Siltstone</u> , pale green to lavender, slightly dolomitic interbedded occasional with Limestone, tan to grey, IVFA.	
1340	50	100	<u>Limestone</u> , tan to pale grey to green, IVFA, silty.	
1350	60	100	<u>Siltstone</u> , pale green, calcareous.	

DITCH SAMPLES

Examined by Saeley 1360, 1780
Aubert 1360, 1780

Well Gravers Mesa 2
 Field or Area Emery Co., Utah
 not

FROM TO % SHOWS UNDERLINED SAMPLES/LAGGED

Tentative Sample Top Shinarump 1360'

1360 90 100 Sandstone, white to pale green, very fine, coarse, calcareous.
 tr. Shale, pale green.

Tentative Sample Top Moenkopi 1390'

1390 1400 100 Sandstone, tan, very fine to silty, occasional interbedded,
 with siltstone, maroon.

1400 30 100 Siltstone, maroon, argillaceous to silty.

1430 70 100 Shale, maroon, silty.

1470 80 100 Siltstone, maroon, argillaceous.

1480 90 100 Shale, maroon, argillaceous to silty.

1490 1550 100 Siltstone, maroon, argillaceous.
 tr. Anhydrite, white.

1550 90 100 Siltstone, maroon, argillaceous.
 tr. Anhydrite, white.

1590 1600 100 Shale, maroon, silty.

1600 20 100 Siltstone, maroon.
 tr. Sandstone, white, very fine to fine, slightly dolomitic, micaceous.

1620 50 100 Siltstone, pale green, slightly dolomitic.

1650 70 100 Shale, maroon, silty.

1670 80 100 Siltstone, maroon, slightly dolomitic.

1680 1700 100 Sandstone, maroon, green, buff, slightly dolomitic, micaceous.

1700 20 100 Siltstone, tan to maroon.
 tr. Shale, maroon.

1720 60 100 Siltstone, pale green, slightly dolomitic.

1760 70 100 Siltstone, maroon, slightly dolomitic, micaceous.

1770 80 100 Shale, dark brown, silty.

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DITCH SAMPLES

Examined by Seeley 1550 to 2110
Aubert to

Well Gruvers Mesa 2
 Field or Area Emery Co. - Utah
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
1780	1800	100	<u>Siltstone</u> , maroon, slightly dolomitic.	
1800	30	100	<u>Siltstone</u> , buff, slightly pyritic, slightly dolomitic, micaceous.	
1830	50	100	<u>Siltstone</u> , pale grey to green, slightly pyritic, slightly dolomitic.	
		tr.	<u>Shale</u> , grey to green.	
1850	1900	100	<u>Siltstone</u> , buff as above.	
		tr.	<u>Shale</u> , grey to green as above.	
1900	20	100	<u>Shale</u> , grey to green, silty.	
1920	40	100	<u>Siltstone</u> , pale grey, slightly dolomitic.	
1940	2110	100	<u>Shale</u> , maroon, occasionally silty.	
		tr.	<u>Shale</u> , green.	
2110	20	100	<u>Siltstone</u> , buff with rare fine to medium quartz grains.	
2120	30	100	<u>Sandstone</u> , maroon, silt to medium argillaceous with occasional coarse quartz grains.	
2130	40	100	<u>Siltstone</u> , maroon, with rare medium to coarse quartz grains.	
<u>Tentative Sample top - Coconino 2140'.</u>				
2140	2300	100	<u>Sandstone</u> , white to buff, very fine to fine, well rounded. Sample quality poor.	
2300	70	100	<u>Sandstone</u> , as above, very fine to medium.	
2370	2420	100	<u>Sandstone</u> , as above becoming very fine to fine with rare coarse quartz grains.	
2420	60	100	<u>Sandstone</u> , as above with no coarse quartz grains.	
2460	2520	100	<u>Sandstone</u> , as above, becoming very fine & light orange to maroon.	
<u>Tentative Sample Top - Cutler 2520'.</u>				
2520	50	100	<u>Sandstone</u> , light orange to maroon, silty to very fine.	

4

DITCH SAMPLES

Examined by Seeley 2550 to 2590
Albert _____ to _____

Well Gravers Mass 2
 Field or Area Emery Co. - Utah
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
------	----	---	------------------	------------------

2550	60	100	<u>Shale</u> , light orange to maroon with fragments Chert, orange.	
2560	70	100	<u>Siltstone</u> , maroon, slightly argillaceous, very micaceous.	
2570	90	100	<u>Sandstone</u> , orange to maroon, very fine to slightly dolomitic.	

DITCH SAMPLES

Examined by Seeley 2590 to 2820
Aubert 2590 to 2820

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
2590	2600	100	<u>Siltstone</u> , orange to maroon, very micaceous with rare coarse quartz grains.	
2600	20	100	<u>Siltstone</u> , maroon, slightly dolomitic, micaceous.	
2620	30	100	<u>Siltstone</u> , as above with rare dolomite, white to buff IFA.	
2630	50	100	<u>Siltstone</u> , as above.	
		tr.	<u>Siltstone</u> , green.	
2650	60	100	<u>Siltstone</u> , as above.	
		tr.	<u>Dolomite</u> , white to light green, IFA, chloritic.	
2660	80	100	<u>Siltstone</u> , as above, becoming very micaceous.	
		tr.	<u>Sandstone</u> , as above, very fine to medium slightly chloritic, dolomite	
2680	2700	100	<u>Siltstone</u> , as above, very micaceous.	
2700	40	100	<u>Siltstone</u> , as above.	
		tr.	<u>Limestone</u> , tan, IVFA.	
2740	50	100	<u>Siltstone</u> , as above.	
		tr.	<u>Shale</u> , lavender.	
2750	60	100	<u>Siltstone</u> , as above.	
		tr.	<u>Shale</u> , dark grey to green, very micaceous.	
<u>Tentative Sample Top Permian Carbonates 2760'</u>				
2760	70	100	<u>Limestone</u> tan to buff IVFA.	
2770	80	100	<u>Limestone</u> as above, silty.	
		tr.	<u>Chert</u> , Orange.	
2780	90	100	<u>Limestone</u> , brown to grey, IVFA, abundant, fusulinids.	
		tr.	<u>Siltstone</u> , grey, micaceous.	
2790	2800	100	<u>Siltstone</u> , brown to grey, very micaceous.	
2800	10	100	<u>Limestone</u> , tan to buff, IVFA, fusulinids.	
2810	20	100	<u>Siltstone</u> , white, calcareous.	9

DITCH SAMPLES

Examined by Seeley 2820 to 3150
Aubert _____ to _____

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
2820	60	100	<u>Siltstone</u> , dark grey, very micaceous, slightly calcareous.	
2860	70	100	<u>Siltstone</u> , maroon, micaceous.	
2870	80		No Sample.	
2880	2900	100	<u>Sandstone</u> , white, very fine, slightly calcareous.	
2900	20	100	<u>Limestone</u> , tan, IVFA.	
2920	30	100	<u>Sandstone</u> , tan to pale maroon, very fine, calcareous.	
		tr.	<u>Limestone</u> , as above.	
2930	50	100	<u>Limestone</u> , tan, IVFA, with occasional fusulinids.	
		tr.	<u>Sandstone</u> , as above.	
2950	70	100	<u>Dolomite</u> , dark grey, IVFA, silty, argillaceous.	
2970	3030	100	<u>Limestone</u> , tan to brown, IVFA, slightly argillaceous, silty, with occasional fragments, brown, chert.	
3030	40	100	<u>Dolomite</u> , medium grey, IVFA, slightly argillaceous, silty.	
3040	50	100	<u>Limestone</u> , tan, IVFA, with abundant light brown to pale blue chert fragments (translucent).	
3050	60	100	<u>Limestone</u> , brown to light grey, IVFA, silty, argillaceous, brachiopods, crinoidal.	
3060	70	100	<u>Siltstone</u> , tan, calcareous.	
3070	80	100	<u>Sandstone</u> , pale grey to green silty to very fine, calcareous, micaceous.	
3080	3110	100	<u>Sandstone</u> , white to tan, very fine to fine, dolomitic.	
3110	20	100	<u>Siltstone</u> , medium to dark grey, calcareous.	
		tr.	<u>Shale</u> , grey, micaceous.	
3120	30	100	<u>Siltstone</u> , as above.	
		tr.	<u>Limestone</u> , brown, IVFA.	
3130	40	100	<u>Limestone</u> , brown to grey, IVFA, argillaceous, fossiliferous.	
3140	50	100	<u>Limestone</u> , dark brown, IVFA, silty, abundant, chert brown.	

DITCH SAMPLES

Examined by Seeley 3150 to 3500
Aubert to

Well Gruvers Mesa 2
Field or Area Emery Co., Utah

not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
3150	80	100	<u>Limestone</u> , tan, IVFA, argillaceous, to silty, fossiliferous.	
3180	3230	100	<u>Limestone</u> , buff to light brown, IVFA, silty, abundant chert fragments, brown.	
3230	50	100	<u>Limestone</u> , as above, with fragments, chert, pale blue, translucent.	
3250	70	100	<u>Limestone</u> , brown, tan to light grey, IVFA, argillaceous, rare chert, as above.	
3270	80	100	<u>Limestone</u> , as above.	
		tr.	<u>Limestone</u> , tan, IIIFA, pseudo-oolitic.	
3280	90	100	<u>Limestone</u> , brown, IVFA, silty.	
3290	3300	100	<u>Limestone</u> , tan, III/IVF-FA, psuedo-oolitic.	
3300	20	100	<u>Limestone</u> , light brown, IVFA, silty.	
		tr.	<u>Chert</u> , pale blue.	
3320	30	100	<u>Siltstone</u> , lavender to maroon, very micaceous.	
3330	40	100	<u>Siltstone</u> , light grey, calcareous, micaceous.	
3340	60	100	<u>Limestone</u> , medium to dark grey, IVFA, argillaceous, silty, occasional chert, blue.	
3360	70	100	<u>Limestone</u> , tan, IVFA, occasional Chert as above.	
3370	3410	100	<u>Siltstone</u> , green to grey, calcareous, very micaceous, rare Chert, brown.	
		tr.	<u>Sandstone</u> , grey, very fine to fine.	
3410	20	100	<u>Sandstone</u> , green to grey, very fine to fine, calcareous, micaceous, glauconitic.	
3420	40	100	<u>Sandstone</u> , as above.	
		tr.	<u>Limestone</u> , tan, IVFA.	
3440	50	No Sample.		
3450	60	100	<u>Limestone</u> , tan to brown, IVFA, silty.	
3460	70	100	<u>Chert</u> , light tan, translucent.	
		tr.	<u>Limestone</u> , tan, IVFA.	
3470	3500	100	<u>Limestone</u> , grey to tan, IVFA, silty, argillaceous.	//

DITCH SAMPLES

Examined by Seeley 3500 to 3790
Aubert to

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
			tr. <u>Chert</u> as above.	
3500	10	100	<u>Sandstone</u> , white to grey, silty to very fine, calcareous, very micaceous.	
3510	50	100	<u>Sandstone</u> , white to grey, very fine to fine, micaceous, slightly glauconitic.	
3550	70	100	<u>Siltstone</u> , grey to green, very calcareous, slightly micaceous.	
			tr. <u>Sandstone</u> , as above.	
3570	80	100	<u>Sandstone</u> , white, silty to very fine, calcareous, sub-angular, with red.	
3580	90	100	<u>Siltstone</u> , medium to dark grey, slightly calcareous.	
3590	3610	100	<u>Sandstone</u> , medium to dark grey, silty to very fine, slightly calcareous	
			tr. <u>Siltstone</u> , grey.	
3610	20	100	<u>Dolomite</u> , brown to light grey, IVFA.	
			tr. <u>Anhydrite</u> , white.	
3620	30	100	<u>Limestone</u> , dark brown, IVFA, fossiliferous.	
			tr. <u>Anhydrite</u> , white.	
3630	40	100	<u>Sandstone</u> , light grey, silty to very fine, calcareous, micaceous.	
			tr. <u>Anhydrite</u> , white.	
3640	70	100	<u>Limestone</u> , light tan, IVFA, silty, siliceous, fossiliferous.	
3670	3700	100	<u>Limestone</u> , dark grey, IVFA, very argillaceous, slightly siliceous.	
3700	10	100	<u>Shale</u> , dark brown to grey, very calcareous.	
3710	20	100	<u>Sandstone</u> , pale grey to white, silty to very fine, very calcareous, micaceous.	
3720	30	100	<u>Limestone</u> , dark brown, IVFA, very argillaceous, siliceous, fossiliferous	
3730	40	100	<u>Limestone</u> , as above, slightly siliceous, not fossiliferous.	
3740	70	100	<u>Shale</u> , dark brown to grey, very dolomitic, very silty, micaceous.	
			tr. <u>Anhydrite</u> , white.	
3770	90	100	<u>Siltstone</u> , dark grey, very dolomitic, very argillaceous. <i>12</i>	

DITCH SAMPLES

Examined by Seeley 3790 to 4060
Aubert to

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
			tr. <u>Anhydrite</u> , white.	
3790	3800	100	<u>Dolomite</u> , tan, IVFA, very silty.	
			tr. <u>Anhydrite</u> .	
3800	20	100	<u>Siltstone</u> , tan, very dolomitic with occasional Chert fragments brown.	
			tr. <u>Anhydrite</u> .	
3820	80	100	<u>Sandstone</u> , pale grey, silty to very fine, very dolomitic, slightly pyritic, micaceous.	
3840 - 3890			Samples Poor.	
3880	3920	100	<u>Limestone</u> , brown, IVFA, silty.	
			tr. <u>Limestone</u> , brown, IVFA, sub-lithographic.	
3920	40	100	<u>Limestone</u> , white to light tan, IVFA, slightly silty with abundant silicified fossiliferous fragments.	
3940	50	100	<u>Limestone</u> , brown, IVFA, slightly sublithographic.	
			tr. <u>Anhydrite</u> .	
			tr. <u>Shale</u> , grey, calcareous.	
3950	70	100	<u>Siltstone</u> , medium grey, calcareous, argillaceous, slightly pyritic, slightly micaceous.	
3970	85	100	<u>Sandstone</u> , tan to white, very fine to fine, dolomitic, with abundant coarse micaceous flakes.	
3985	4000	100	<u>Siltstone</u> , grey, dolomitic, argillaceous, micaceous.	
4000	10	100	<u>Siltstone</u> , dark grey, calcareous, argillaceous, micaceous.	
			tr. <u>Limestone</u> , cream to brown, IVFA.	
4010	20	100	<u>Limestone</u> , brown, IVFA, occasional IIIVFA pseudo-oolitic, silty, occasional Chert, brown.	
			tr. <u>Shale</u> , dark grey, silty, (interbedded in above Limestone)	
4020	30	100	<u>Limestone</u> , as above, no chert or IIIVFA Limestone.	
4030	40	100	<u>Sandstone</u> , white to tan, silty to very fine, calcareous, with abundant interbeds of Shale, dark grey, silty, Chert, brown, fossiliferous.	
4040	60	100	<u>Limestone</u> , tan to brown, IVFA, silty, occasional fragments. 13	

DITCH SAMPLES

Examined by Sealey 4060 to 4260
Aubert to _____

Well Gruvers Mesa 2
 Field or Area Emery Co., Utah
 not _____

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
4060	70	100	<u>Shale</u> , dark grey, calcareous, very silty.	
			tr. <u>Limestone</u> , as above.	
4070	90	100	<u>Limestone</u> , brown, IVFA, silty, Chert, fragments as above, fossiliferous	
			tr. <u>Sandstone</u> , light grey, silty to very fine, slightly calcareous.	
4090	4100	100	<u>Limestone</u> , brown, IVFA, silty, abundant, Chert fragments, as above.	
4100	10	100	<u>Limestone</u> , medium brown, IVFA, silty, fossiliferous, abundant Chert as above.	
4110	30	100	<u>Limestone</u> , as above, slightly silty, occasional stylolitic.	
4130	40	100	<u>Limestone</u> , as above, not stylolitic.	
			tr. <u>Anhydrite</u> .	
4140	50	100	<u>Limestone</u> , as above, dark brown to grey, slightly pyritic.	
4150	60	100	<u>Limestone</u> , dark brown, IVFA, very fossiliferous.	
			tr. <u>Anhydrite</u> .	
4160	80	100	<u>Sandstone</u> , white to grey, very fine, very calcareous, slightly argillaceous.	
			tr. <u>Limestone</u> , brown, IVFA, (Prob. cavings.)	
4180	4200	100	<u>Limestone</u> , light grey to brown, IVFA, slightly silty, occasional Chert fragments, brown.	
4200	10	100	<u>Limestone</u> , medium brown to grey, IVFA, slightly silty, fossiliferous, occasional Chert fragments, brown, occasional stylolitic.	
4210	30	100	<u>Limestone</u> , as above without fossiliferous.	
4230	40	100	<u>Limestone</u> , cream to brown, IVFA, silty with occasional Chert brown.	
4240	50	100	<u>Shale</u> , medium grey to dark brown, very calcareous, silty.	
			tr. <u>Limestone</u> , dark brown, IVFA.	
4250	60	100	<u>Siltstone</u> , pale grey, very calcareous, slightly fossiliferous, occasional Chert fragments, pale blue.	
			tr. <u>Limestone</u> , tan, IVFA.	

DITCH SAMPLES

Examined by Seeley 4260 to 4480
Aubert 4260 to 4400
Woodward 4400 - 4480

Well Gruvers Mesa 2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
4260	70	100	<u>Limestone</u> , medium brown, IVFA. tr. Anhydrite.	
4270	4300	100	<u>Limestone</u> , white to light tan, IVFA, very sandy, abundant chert chert fragments, pale blue, fossiliferous.	
4300	20	100	<u>Limestone</u> , light tan, IVFA, very sandy, occasionally with red quartz grains, abundant chert fragments, light brown.	
4320	30	100	<u>Limestone</u> , tan to white, IVFA, very silty, with occasional anhydrite and rare pale blue chert.	
4330	40	100	<u>Limestone</u> , as above, without chert.	
4340	60	100	<u>Sandstone</u> , medium brown, silty - very fine, very calcareous. tr. <u>Limestone</u> , brown, IVFA.	
4360	80	100	<u>Limestone</u> , tan, IVFA, with abundant chert fragments, pale blue.	
4380	4400	100	<u>Limestone</u> , dark brown to grey, IVFA, argillaceous, silty, occasional anhydrite & chert fragments, brown.	
4400	10	60	<u>Limestone</u> , tan & grey, I-IIVFA-ILA, trace anhydrite & chert.	
		40	<u>Dolomite</u> , dark brown, IVFA, argillaceous, calcareous.	
10	20	85	<u>Limestone</u> , as above.	
		15	<u>Dolomite</u> , as above.	
20	30	60	<u>Sandstone</u> , tan, silty to very fine, quartz, sub-angular, very calcareous 30%.	
		40	<u>Limestone</u> , as above.	
30	40	90	<u>Sandstone</u> , as above.	
		10	<u>Chert</u> , white.	
40	50	80	<u>Limestone</u> , tan, IVFA, very silty to sandy, 40% quartzose.	
		20	<u>Chert</u> , white to brown.	
50	70	60	<u>Limestone</u> , as above.	
		40	<u>Chert</u> , white to brown.	
70	80	70	<u>Limestone</u> , as above.	
		30	<u>Chert</u> , as above.	

DITCH SAMPLES

Examined by Woodward 4480 to 4680
to _____

Well Gravers Mesa #2
Field or Area Emery County, Utah
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
4480	90	50	<u>Limestone</u> , tan, IVFA, very silty to sandy 40%, quartzose..	
		40	<u>Chert</u> , white to brown.	
		10	<u>Shale</u> , gray, calcareous.	
4490	4510	100	<u>Siltstone</u> , dark brown, argillaceous, quartzose, very dolomitic 25%.	
4510	20	80	<u>Siltstone</u> , as above, very dolomitic 40%.	
		20	<u>Limestone</u> , tan, I-IVFA, very silty to sandy 40%	
4520	30	30	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above.	
		40	<u>Siltstone</u> , white to light gray, very sandy (very fine) quartz, dolomitic.	
4530	40		<u>Sample Missing</u>	
			<u>Circulation Samples at 4546'</u>	
		80	<u>Siltstone</u> , tan to white, very sandy, quartz, dolomitic.	
		20	<u>Anhydrite</u>	
4550	4620		<u>No samples</u>	
4620	30	100	<u>Anhydrite</u> , white crystalline.	
4630	40	80	<u>Anhydrite</u> , as above.	
		20	<u>Siltstone</u> , tan, sandy, quartz, dolomitic cement 15-25%, isolated B & C size cavities, tight, pale orange mineral fluorescence. <u>Trace pale yellow sample fluorescence. Pale yellow cut fluorescence 5%. No cut.</u>	
4640	50	90	<u>Siltstone</u> , as above.	
		10	<u>Anhydrite</u> , as above.	
4650	60	90	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , black, dolomite 15%.	
4600	80	40	<u>Siltstone</u> , as above, with <u>30% bright orange to bright yellow sample fluorescence, bright yellow cut fluorescence, no cut.</u>	
		60	<u>Shale</u> , black, <u>no sample fluorescence, bright yellow white cut fluorescence. No cut.</u>	

DITCH SAMPLES

Examined by Woodward 4680 to 4770
 _____ to _____

Well Gruvers Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
4680	90	60	<u>Shale, black, no sample fluorescence, bright yellow cut fluorescence, no cut.</u>	
		40	<u>Siltstone, tan, sandy, quartz, dolomitic cement 15-25%, isolated B & C size cavities, tight, pale orange minute fluorescence. 20% bright orange to bright yellow sample fluorescence. Yellow white cut fluorescence, no cut.</u>	
4690	4700	100	<u>Anhydrite, white, chalky.</u>	
4700	10	100	<u>Shale, black, as above - sample contaminated by addition of salt to the mud.</u>	
4710	20	70	<u>Anhydrite, white, chalky and crystalline.</u>	
		30	<u>Siltstone, as above with trace pale yellow sample fluorescence, pale yellow cut fluorescence 5%. No cut.</u>	
4720	30	90	<u>Siltstone, as above.</u>	
		10	<u>Anhydrite, white crystalline.</u>	
4730	40	90	<u>Siltstone, as above with sample fluorescence bright orange to bright yellow white 10%, cut fluorescence bright yellow white 20%. No cut.</u>	
		10	<u>Anhydrite, as above.</u>	
4740	50	70	<u>Siltstone, as above.</u>	
		20	<u>Shale, as above.</u>	
		10	<u>Anhydrite, as above.</u>	
4750	60	80	<u>Siltstone, as above with cut fluorescence, bright yellow white 15% and sample fluorescence fluorescence bright.</u>	
		10	<u>Shale, as above.</u>	
		10	<u>Shale, as above.</u>	
4760	70	60	<u>Siltstone, as above with sample fluorescence 5%. Cut fluorescence 10%.</u>	
		40	<u>Anhydrite, white, chalky and crystalline.</u>	

DITCH SAMPLES

Examined by Woodward 4770 to 5000
 _____ to _____

Well Gruvers Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED
4770	90	90	<u>Siltstone</u> , tan, sandy, quartz, dolomitic cement 15-25%, isolated B & C size cavities, tight, pale orange minute fluorescence trace pale yellow sample fluorescence, pale yellow cut fluorescence trace 5%. No cut.	
		10	<u>Anhydrite</u> , white, crystalline.	
4790	4830	80	<u>Siltstone</u> , as above.	
		10	<u>Anhydrite</u> , as above.	
		10	<u>Dolomitic</u> , brown IVFA, very argillaceous.	
4830	70	90	<u>Siltstone</u> , as above, with no sample fluorescence, trace pale to bright yellow white cut fluorescence. No cut.	
		10	<u>Anhydrite</u> , as above.	
4870	4940	100	<u>Salt</u>	
4940	50	90	<u>Siltstone</u> tan, dolomitic cement 5-15%, soft to firm, with very scattered 1 - 1 mm solution cavities, tight, pale orange minute fluorescence trace - 2% speckled pale green white sample fluorescence, 5% pale yellow white cut fluorescence. No cut.	
		10	<u>Shale</u> , black, no sample fluorescence, bright yellow white cut fluorescence, no cut.	
4950	60	100	<u>Siltstone</u> , as above.	
4960	70	80	<u>Siltstone</u> , as above, dolomitic cement 5-25%.	
		10	<u>Shale</u> , as above.	
		10	<u>Anhydrite</u> .	
4970	90	50	<u>Siltstone</u> , as above.	
		20	<u>Shale</u> , as above.	
		30	<u>Anhydrite</u>	
4990	5000	60	<u>Siltstone</u> , as above, firm to very firm, 15-25% dolomitic cement.	
		20	<u>Shale</u> , as above.	
		10	<u>Anhydrite</u>	
		10	<u>Dolomite</u> , brown IVFB ₁ C ₂ , very silty, 5% speckled bright yellow sample fluorescence, bright yellow white cut fluorescence 10%, no cut.	

DITCH SAMPLES

Examined by Woodward 5000 to 5210
 _____ to _____

Well Grovers Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
5000	20	30	<u>Siltstone</u> , tan, dolomitic cement 10-20%, firm, very scattered oil to 1.0 mm solution cavities tight, <u>trace speckled pale green white sample fluorescence</u> , trace - <u>5% pale yellow white cut fluorescence</u> . <u>No cut</u> . Pale orange minute fluorescence.	
		30	<u>Shale</u> , black, <u>no sample fluorescence</u> , bright yellow white cut fluorescence <u>no cut</u> .	
		40	<u>Anhydrite</u> , white chalky.	
5020	30	50	<u>Siltstone</u> , as above.	
		30	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u> , as above.	
5030	40	50	<u>Siltstone</u> , as above.	
		30	<u>Anhydrite</u> , as above.	
		20	<u>Salt</u>	
5040	5110	100	<u>Salt</u>	
5110	30	40	<u>Salt</u>	
		40	<u>Siltstone</u> , as above.	
		20	<u>Shale</u> , as above.	
5130	70	100	<u>Salt</u>	
5170	80	80	<u>Salt</u>	
		10	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , as above.	
5180	90	70	<u>Salt</u>	
		20	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , as above.	
5190	5200	50	<u>Siltstone</u> , tan to brown, sandy, quartz, dolomitic cement 15-25%, firm to very firm, tight, pale orange minute fluorescence, <u>trace speckled green white sample fluorescence</u> , trace - <u>5% pale yellow white cut fluorescence</u> . <u>No cut</u> .	
		30	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u> , white, chalky.	
5200	10	100	<u>Anhydrite</u> .	

DITCH SAMPLES

Examined by Woodward 5210 to 5320
to

Well Grubers Mesa #2
Field or Area Emery County, Utah
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5210	20	50	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , black, as above.	
		40	<u>Anhydrite</u> , as above.	
5220	30	80	<u>Siltstone</u> , tan to light gray, quartz, dolomitic cement 15-25%, firm to very firm, very scattered .1 to 1mm solution cavities, tight, pale orange mineral fluorescence, <u>3% speckled pale green white sample fluorescence, 5% pale bright yellow white cut fluorescence, not cut.</u>	
		10	<u>Shale</u> , black, <u>no sample fluorescence, bright yellow white cut fluorescence, no cut.</u>	
		10	<u>Anhydrite</u> white, crystalline.	
5230	50	80	<u>Siltstone</u> , as above, <u>no sample fluorescence, pale yellow white cut fluorescence.</u>	
		10	<u>Shale</u> , as above.	
		10	<u>Anhydrite</u> , as above.	
5250	60	70	<u>Siltstone</u> , as above, <u>trace speckled green white sample fluorescence, pale yellow white cut fluorescence.</u>	
		10	<u>Shale</u> , as above.	
		20	<u>Anhydrite.</u>	
5260	70	70	<u>Siltstone</u> , as above, dolomitic cement 10-20%, soft to firm, <u>no sample fluorescence.</u>	
		10	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u>	
5270	80	70	<u>Siltstone</u> , as above, dolomitic cement 10-20% soft to firm, <u>trace speckled green white sample fluorescence.</u>	
		10	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u>	
5280	5300	100	<u>Salt</u>	
5300	20	60	<u>Salt</u>	
			<u>Siltstone</u> , as above, dolomitic cement 15-20%, firm, <u>no sample fluorescence with trace black shale.</u>	
5320	30	40	<u>Salt</u>	
		50	<u>Siltstone</u> , as above.	
		10	<u>Anhydrite</u> , white crystalline.	20

DITCH SAMPLES

Examined by Woodward 5330 to 5470
to _____

Well Gravers Mesa #2
Field or Area Emery County, Utah
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5330	40	80	<u>Siltstone</u> , tan, dolomitic cement 10-20%, firm, tight, pale orange minute fluorescence.	
		10	<u>Shale</u> , black, <u>no sample fluorescence</u> , trace bright yellow white cut fluorescence, <u>no cut</u> .	
		10	<u>Anhydrite</u> , white, crystalline.	
5340	50	85	<u>Siltstone</u> , tan to brown, dolomitic cement 10-20% firm to very firm, tight pale or minute fluorescence with black shale partings 5%.	
		15	<u>Anhydrite</u>	
5350	60	60	<u>Siltstone</u> , as above.	
		40	<u>Anhydrite</u> , white, chalky.	
5360	70	70	<u>Anhydrite</u> , as above.	
		30	<u>Siltstone</u> , as above.	
5370	80	100	<u>Anhydrite</u> , as above.	
5380	90	100	<u>Salt</u>	
5390	5400	50	<u>Salt</u>	
		30	<u>Siltstone</u> , as above.	
		20	<u>Anhydrite</u> .	
5400	10	80	<u>Siltstone</u> , as above.	
		20	<u>Anhydrite</u>	
5410	20	80	<u>Siltstone</u> , as above, dolomitic cement 15-25%, <u>trace speckled pale green white sample fluorescence trace pale yellow white cut fluorescence</u> .	
		20	<u>Anhydrite</u>	
5420	30	55	<u>Siltstone</u> , as above, <u>trace speckled pale green white sample fluorescence, trace cut fluorescence</u> .	
		25	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u> .	
5430	40	40	<u>Anhydrite</u> , white chalky.	
		40	<u>Siltstone</u> , as above.	
		20	<u>Shale</u> , as above.	
5440	60	100	<u>Anhydrite</u> , as above.	
5460	70	60	<u>Anhydrite</u> , as above.	
		20	<u>Dolomite</u> , brown IVFA, silty with blebs anhydrite.	
		10	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , as above.	

DITCH SAMPLES

Examined by Woodward 5470 to 5860
 _____ to _____

Well Gruvers Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
5470	90	90	<u>Siltstone</u> , tan to light brown, dolomitic cement 10-20%, firm, tight pale or minute fluorescence, with black shale partings 5%. <u>No sample fluorescence, trace pale yellow white cut fluorescence, no cut.</u>	
		10	<u>Anhydrite</u> , white, crystalline.	
5490	5500	70	<u>Siltstone</u> , as above.	
		20	<u>Anhydrite</u> , white, chalky and crystalline.	
		10	<u>Shale</u> , black, <u>no sample fluorescence, bright yellow white cut fluorescence, no cut.</u>	
5500	20	90	<u>Siltstone</u> , as above.	
		10	<u>Anhydrite</u> , white crystalline.	
5520	5720	100	<u>Salt</u>	
5720	30	60	<u>Shale</u> , black, <u>no sample fluorescence bright yellow white cut fluorescence, no cut, bubbling gas, petroleum odor.</u>	
		40	<u>Salt</u>	
5730	50	60	<u>Salt</u>	
		40	<u>Shale</u> , as above.	
5750	60	100	<u>Shale</u> , as above.	
5760	80	90	<u>Shale</u> , as above.	
		10	<u>Anhydrite</u> , white chalky.	
5780	90	80	<u>Shale</u> , as above.	
		20	<u>Anhydrite</u> , as above.	
5790	5800	70	<u>Shale</u> , as above.	
		30	<u>Anhydrite</u> , as above.	
5800	10	60	<u>Shale</u> , as above.	
		40	<u>Anhydrite</u> , as above.	
5810	50	100	<u>Salt</u>	
5850	60	90	<u>Salt</u>	
		10	<u>Shale</u> , black, <u>no sample fluorescence, bright yellow white cut fluorescence, no cut.</u>	

DITCH SAMPLES

Examined by Woodward 5860, 6000
 _____ to _____

Well Gruvers Mesa #2
 Field or Area Emery County, Utah
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
5860	70	45	<u>Shale, black, no sample fluorescence, bright yellow white cut fluorescence no cut.</u>	
		20	<u>Siltstone, tan to brown quartz, dolomitic cement 10-20%, firm, tight, uniform brown green white sample fluorescence, bright yellow white cut fluorescence, no cut.</u>	
		20	<u>Salt</u>	
		15	<u>Anhydrite white, chalky.</u>	
5870	80	60	<u>Shale, black, as above.</u>	
		20	<u>Siltstone, as above.</u>	
		20	<u>Anhydrite, as above.</u>	
5880	5900	60	<u>Shale, black, as above.</u>	
		15	<u>Siltstone, as above.</u>	
		25	<u>Anhydrite</u>	
5900	20	40	<u>Shale, black, as above.</u>	
		40	<u>Salt</u>	
		10	<u>Siltstone, as above, with trace sample fluorescence and cut fluorescence.</u>	
		10	<u>Anhydrite</u>	
5920	50	100	<u>Salt</u>	
5950	60	40	<u>Siltstone, tan to brown, quartz, dolomitic cement 10-20%, firm, tight, no sample fluorescence, trace pale yellow white cut fluorescence, no cut.</u>	
		30	<u>Shale, black, as above.</u>	
		30	<u>Anhydrite, as above.</u>	
5960	70	70	<u>Anhydrite, white, chalky</u>	
		20	<u>Shale, black, as above.</u>	
		10	<u>Siltstone, as above.</u>	
5970	80	80	<u>Anhydrite, as above.</u>	
		20	<u>Shale, as above.</u>	
5980	90	80	<u>Shale, as above.</u>	
		20	<u>Anhydrite</u>	
5980	90	80	<u>Shale, as above.</u>	
		20	<u>Anhydrite</u>	
5990	6000	70	<u>Salt</u>	
		20	<u>Shale, as above.</u>	
		10	<u>Anhydrite, as above.</u>	

DITCH SAMPLES

Examined by Woodward 6000 to 6310
toWell Cruvers Mesa #2
Field or Area Emery County, Utah
Not

SAMPLES / LAGGED

FROM	TO	%	SHOWS UNDERLINED
6000	6010	80	<u>Salt</u>
		20	<u>Anhydrite</u> , white, chalky.
6010	20	70	<u>Salt</u>
		20	<u>Anhydrite</u> , as above.
		10	<u>Shale</u> , black, no sample fluorescence, <u>bright yellow white cut fluorescence</u> , no cut.
6020	30	80	<u>Salt</u>
		10	<u>Anhydrite</u> , as above.
		10	<u>Shale</u> , as above.
6030	6200	100	<u>Salt</u>
6200	30	85	<u>Salt</u>
		15	<u>Siltstone</u> , tan to brown, quartz, dolomitic cement 10-20%, firm, tight with trace black shale and anhydrite.
6230	40	100	<u>Salt</u>
6240	50	80	<u>Siltstone</u> , as above with pale orange minute fluorescence.
		10	<u>Shale</u> , as above.
		10	<u>Anhydrite</u> , white crystalline.
6250	60	50	<u>Siltstone</u> , as above.
		40	<u>Shale</u>
		10	<u>Anhydrite</u> , as above.
6260	70	80	<u>Siltstone</u> , as above, 15-25% dolomitic cement, firm to very firm.
		10	<u>Shale</u> , as above.
		10	<u>Anhydrite</u> , as above.
6270	90	100	<u>Siltstone</u> , light gray to tan, quartz, slightly sandy dolomitic cement 10% firm, tight with trace shale 5%.
6290	6300	70	<u>Siltstone</u> , as above.
		30	<u>Shale</u> , black, as above.
6300	10	60	<u>Anhydrite</u> , white chalky.
		40	<u>Siltstone</u> , as above.
6310	40	100	<u>Anhydrite</u> , as above.

DITCH SAMPLES

Examined by Woodward 6340 to 6480
_____ to _____Well Gruvers Mesa #2
Field or Area Emery County, Utah
Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
6340	60	80	<u>Anhydrite</u> white chalky and crystalline.	
		20	<u>Siltstone</u> , light gray to tan, quartz, clean dolomitic cement 10%, tight, soft.	
6360	80	60	<u>Siltstone</u> , light gray green to brown, quartz dolomitic cement 10-25%, firm to very firm tight with light brown to green dolomitic (IVFA) partings.	
		40	<u>Anhydrite</u> , as above.	
6380	90	50	<u>Siltstone</u> , as above.	
		50	<u>Anhydrite</u> , as above.	
6390	6400	20	<u>Siltstone</u> , as above.	
		80	<u>Anhydrite</u> , as above.	
6400	10	40	<u>Siltstone</u>	
		40	<u>Anhydrite</u>	
		20	<u>Shale</u> , black, <u>no sample fluorescence, bright yellow white cut fluorescence no cut.</u>	
6410	20	60	<u>Anhydrite</u> , as above.	
		30	<u>Siltstone</u> , as above.	
		10	<u>Shale</u> , as above.	
6420	30	50	<u>Siltstone</u> , as above.	
		30	<u>Anhydrite</u> , as above.	
		20	<u>Shale</u> , as above.	
6430	40	60	<u>Siltstone</u> , as above.	
		30	<u>Shale</u> , as above.	
		10	<u>Anhydrite</u> , as above.	
6440	50	70	<u>Siltstone</u> , as above.	
		20	<u>Anhydrite</u> , as above.	
		10	<u>Shale</u> .	
6450	80	80	<u>Siltstone</u> , as above, with <u>1% speckled pale green white sample fluorescence, bright yellow white cut fluorescence, no cut.</u>	
		20	<u>Anhydrite</u> , as above.	

	X		
		10	

Land Office Salt Lake City

Lease No. U 032777

Unit _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

[Handwritten signature]
M/H
9-14

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 RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING 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)

..... May 2, 19 59

Cravers Mesa

Well No. 2 is located 696 ft. from [N] line and 1843 ft. from [E] line of sec. 10

NW 10 (¼ Sec. and Sec. No.) 25 S (Twp.) 16 E (Range) SLM (Meridian)
Wildcat (Field) Emery (County or Subdivision) Utah (State or Territory)

Kelly Gushing

The elevation of the ~~surface~~ above sea level is 4751 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:

1. With open end drill pipe plug as follows:
 - a. 75 sacks at 6725'
 - b. 25 sacks at 4250'
 - c. 25 sacks at 2200'
 - d. 60 sacks at 984'
2. Locate top of plug at 564'.
3. Installed marker with a 10 sack cement cap and abandoned 3-10-59.

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 P. O. Box 156
Farmington, New Mexico

Exploitation by
R. S. MacAlister, Jr.

By _____
R. S. MacAlister, Jr.
Title Div. Exploitation Engineer