FILE NOTATIONS

Entered in NID File	✓	Checked by Chief	✓
Entered On S R Sheet	✓	Copy NID to Field Office	✓
Location Map Pinned	✓	Approval Letter	✓
Card Indexed	✓	Disapproval Letter	
IWR for State or Fee Land			

COMPLETION DATA:

Date Well Completed	12-16-50	Location Inspected	
OW	WW	TA	Bond released
GW	OS	PA X	State or Fee Land

LOGS FILED

Driller's Log 1-22-51

Electric Logs (No.) 7

E ✓ I E-I GR GR-N Run #2 (2) Micro ✓

Lat Mi-L Run #1 (2) Sonic Others Field Print

12-11-91 fax

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

	14		
x			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. I-149-IND-9122

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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 26, 1956

Cahone Mesa
Well No. 1 is located 500 ft. from {N/S} line and 800 ft. from {E/W} line of sec. 14

SW SW 14 (¼ Sec. and Sec. No.) 40 S. (Twp.) 25 E. (Range) S. L. B. & M. (Meridian)

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

The elevation ~~of the derrick floor above sea level~~ is 5081.5 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 1000'±.
2. Run and cement 8 5/8" casing at 1000'± with 250 sacks cement.
3. Drill 7 7/8" hole to a total depth of 6000'±.
4. If commercial production is obtained a supplementary completion notice will be issued, otherwise plug and abandon in accordance with U.S.G.S. regulations.

Surface formation is the Brushy Basin (Jurassic).

IT IS REQUESTED THAT ALL INFORMATION ON THIS WELL BE KEPT CONFIDENTIAL UNTIL THE WELL IS COMPLETED.

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

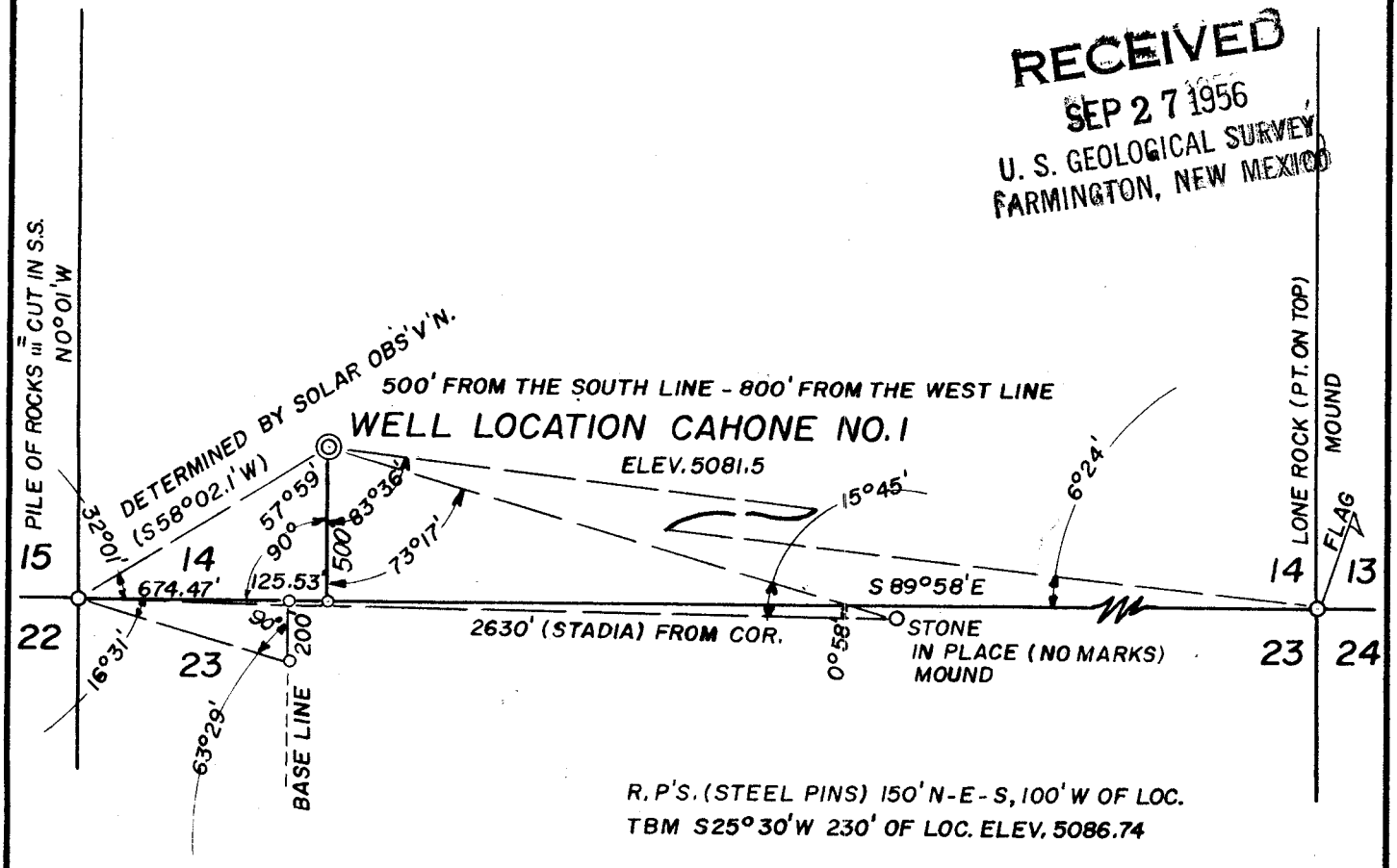
Address 33 Richards Street

Salt Lake City, Utah

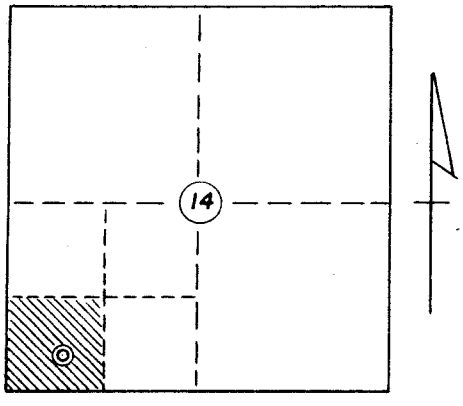
By R. E. Eddy
R. E. Eddy

Title Senior Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7



R. P'S. (STEEL PINS) 150' N-E-S, 100' W OF LOC.
TBM S25°30'W 230' OF LOC. ELEV. 5086.74



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

James P. Leese

JAMES P. LEESE
REGISTERED LAND SURVEYOR
REG. NO. 1472, UTAH

SHELL OIL CO.
WELL LOCATION SW1/4, SW1/4, SECTION 14, T40S, R25E, S.L.M. SAN JUAN COUNTY UTAH
SEPT. 22, 1956. SCALE: 1"= 600'
DRAWN BY - w.c.
SAN JUAN ENGINEERING CO. FARMINGTON NEW MEXICO

Z16-632

PD 4A ! · 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

WELL NO. 1

Cahone Mesa
(FIELD)
San Juan County, Utah
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
October 6, 1956

14
(SECTION OR LEASE)
T40S, R25E
(TOWNSHIP OR RANCHO)

DAY 1956	DEPTHS FROM	DEPTHS TO	REMARKS
			Location: 500' N and 800' E of the SW corner, Section 14, T. 40 S., R. 25 E., S.L.B.M., San Juan County, Utah.
			Elevation: MAT 5081.70' DF 5093.34' KB 5095.71'
10-3 to 10-6	0	1305	Drilled 1305'. Spudded 10:00 P.M. October 3, 1956. Drilled with water base emulsion mud (Baroid). Ran and cemented 8-5/8" casing, 32#, at 1275' with 400 sacks construction cement. Treated with 2% calcium chloride. 15# slurry, one top plug, bumped OK, finished at 1:50 A.M., October 7, 1956, good returns, Halliburton cementers.

Mud Summary

Wt. 11.3 #/gal.
Vis. 40 sec. FC6/32"
pH 6
Salinity 10,000 (t) ppm

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

B. B. Robinson
SIGNED

PD 4A | 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

DRILLING REPORT
FOR PERIOD ENDING
November 6, 1956

WELL NO. 1

Cahone Mesa
(FIELD)
San Juan County, Utah
(COUNTY)

14
(SECTION OR LEASE)
T 40 S R25E
(TOWNSHIP OR RANCHO)

DAY 1956	DEPTHS FROM	DEPTHS TO	REMARKS
10-7 to 10-11	1305	3133	Drilled 1828'. Drilled with water, converted to gypsum base mud at 3133.
10-12 to 11-1	3133	5814	Drilled 2681'.
11-2 to 11-4	5814	5838	Drilled 11'. (Depth Correction on geolograph 37'. 5825'=5788'). Cored 50' (Core #1), recovered 50'.
11-5 to 11-6	5838	5888	Cored 50'. (Core #2). Drill collars parted 90' from the surface while pulling core. Fish includes 19 drill collars and core barrel. Ran Bowen overshot. Bridges incountered at 2550', worked down to 2730' in 4 hours. Ran in with bit, spot reamed to 4192', clean hole to 5362, drilled solid fill to top of fish at 5409. Conditioned mud for 4 hours and ran Bowen overshot, bumper sub, and one drill collar. Worked pipe and jarred 1 hour (no circulation), freed fish. Recovered 50', Core #2. Magna-fluxed drill collars and core barrel.

Mud Summary: Treated mud with impermix, preservative, gypsum, gel, Q-broxin.

CHECKED BOP DAILY

Mud Summary

Wt. 10.1 #/gal
Vis 30-40 Sec.

WL 4-5 cc
FC 1-2/32
Salinity 9000-12,000 ppm (R)
pH 7.6

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
11	0	1305	8-5/8"	1275

DRILL PIPE SIZES 4-1/2

B. B. Robinson
SIGNED

PD 4A ! · 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

WELL NO. 1

DRILLING REPORT

FOR PERIOD ENDING December 9, 1956

Cahone Mesa (FIELD)

San Juan County, Utah (COUNTY)

14 (SECTION OR LEASE)

T. 40 S., R. 25 E. (TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
56			
11-13	5989		DST #2 5795-5824 (Straddle Test) Johnston testers, 2 bobtail packers at 5792' and 5795', and (lower) 5824'; 2 outside and 2 inside pressure recorders, (1 Amerada 5798'; 1 "T" 5788'; and 2 "L" at 5985'), 1-3/4" subsurface bean and 1 - 1" surface bean, perforations 5795-5824'. Used 30' (.147 B) air cushion. Tool initially shut in 20 minutes, open 1 hour 30 minutes, final shut in 45 minutes. (Lower packer leaked during ISI, did not leak during most of flow period). Blow moderate throughout test. No gas to surface, no fluid loss in annulus. Recovered 2834' (38.2 B) total including: 85' (1.2 B) watery gas cut mud and 2749' (37.0 B) slightly muddy gas cut slightly sulphurous salt water. Maximum salinity 101,000 ppm (R). Mud before test 12,000 ppm (R), ISIP failed, IFP 265, FFP 1175, FSIP 1960 (still rising), HP 3020.
11-14 to 11-23	5989		Shut down, repairing engines.
11-24	5989		Installed reconditioned engines. Changed to salt base mud.
11-25 to 12-4	5989	7188	Drilled 1199'.
12-5	7188	7203	Drilled 15'. DST #3 7080-7188', Johnston Testers, 2- 6-5/8" bobtail packers at 7080' and 7075', 4 outside pressure recorders (1 Amerada at 7182', 1 "T" at 7186', and 2 "L" at 7069 and 7067'), 1" surface bean, 3/4" subsurface bean, perforations 7080-7085' and 7171-7188'. Used 30' (.147 B) air cushion. Tool initially shut in 24 minutes, open 1 hour 30 minutes, final shut in 58 minutes. Blow, immediately faint, becoming sporadic and nearly dead at end of test. No gas to surface, no fluid loss in annulus. Recovered 34' (.17 B) drilling mud. Salinity 120,000 ppm (R), ISIP 0, FFP 0, FSIP 0, HP 4197.
12-6 to 12-9	7203	7449	Drilled 246'. Checked BOP daily

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
11	0	1305	8-5/8	1275
7-7/8	1305	5989		

DRILL PIPE SIZES 4-1/2

B. B. Robinson

SIGNED

Cahone Mesa
(FIELD)
San Juan County, Utah
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
November 12, 1956

WELL NO. 14
(SECTION OR LEASE)
T. 40 S., R. 25 E.
(TOWNSHIP OR RANCHO)

DAY 56	DEPTHS FROM	DEPTHS TO	REMARKS
11-7 to 11-9	5888	5938	Cored 50'. Recovered 49'. (Core #3)
11-10 to 11-12	5938	5989	Cored 51'. Recovered 51'. (Core #4). Ran Schlumberger Electrical Survey, Gamma Ray-Neutron, Microlog, Hole Caliper, Laterolog.

DST #1, Johnston Testers, 5788-5843', straddle test, upper bobtail packers at 5785 and 5788', lower packer 5843', 2 outside (long) recorders, 2 inside recorders (Amerada and Johnston "T"), 3/4" sub-surface bean, 1" surface bean, perforations 5788-5806', 5836-5843', 30' air cushion. Tool initially shut in 15 minutes (leaked), open 1 hour 30 minutes, final shut in 45 minutes. Lower packer leaked throughout test. Blow moderate throughout test, no gas to surface, no fluid loss in annulus. Recovered 90' (1.3 bbls) water and gas cut mud, and 3099' (41.9 bbls) slightly muddy, gas cut salt water.

Maximum salinity 100,000 ppm (R). Mud before test 12,000 ppm (R).

ISIP failed, FSIP 2065' (still rising); IFP 255, FFP 1385; IHP 3085; FHP 3075; BHT 140°F.

Treated mud with impermix, preservative, gypsum, gel, Q-broxin.

CHECKED BOP DAILY

Mud Summary

Wt. 10.1#/gal
Vis. 30-45 sec.
WL ± 5 cc
Salinity 12,000 ppm (r)
pH. 7.5

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
11	0	1305	8-5/8	1275
7-7/8"	1305	5888		

DRILL PIPE SIZES 4-1/2

B. B. Robinson
SIGNED

Cahone Mesa
(FIELD)
San Juan County, Utah
(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING
December 17, 1956

WELL NO. 14
(SECTION OR LEASE)
T. 40 S., R. 25 E.
(TOWNSHIP OR RANCHO)

DAY 56	DEPTHS FROM	DEPTHS TO	REMARKS
12-10	7449	7469	Drilled 20'. DST #4, 7280-7449' Johnston Testers. 2- 6-5/8" bobtail packers at 7280' and 7273', 3 outside and 2 inside pressure recorders; "1 "T" at 7447', 1 Amerada at 7444', 1 Amerada at 7439' and 2 "L" at 7264'), 1" surface bean and 3/4" subsurface bean, perforations 7280-7292' and 7437-7449'. Used 30' (0.18 B) air cushion. Tool initially shut in 20 minutes, open 1 hour 30 minutes, final shut in 45 minutes. Blow, immediate faint increasing to weak after 1 minute, increasing to moderate after 3 minutes and remaining steady to end of test. No gas to surface, no fluid loss in annulus. Recovered 4860' (66.1 B) slightly mud cut, heavily (non-flammable) gas cut water. Minimum salinity 47,000 ppm (R). Mud before test 155,000 ppm (R), ISIP 2710, IFP 490, FFP 1040, SIP 2370 (still rising), HP 4480.
12-11 to 12-12	7469	7575	Drilled 88'.
12-13	7575	T.D.	Ran Schlumberger logs: Micro-Laterolog, Gamma Ray-Neutron Log.
12-14			Circulated. Ran Velocity Survey.
12-15			With open end drill pipe plugged as follows: 60 sacks at 7400' (7400-7200) 50 sacks at 6900' (6900-6750) 75 sacks at 6050' (6050-5800) 75 sacks at 2900' (2900-2650) 30 sacks at 1760' (1760-1660) 50 sacks at 1280' (1280-1160) Ran in and located top plug at 1163'. Released rig 4:00 P.M. 12-16-56.
12-17			Installed marker and officially abandoned 12-16-56.

Contractor: George Noland Drlg. Co.

Drillers: C. E. Swisher
G. E. Williams
T. T. Glazebrook

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
11	0	1305	8-5/8	1275
7-7/8	1305	7449		
DRILL PIPE SIZES	4-1/2			

B.B. Robinson
SIGNED

DITCH SAMPLES

Examined by J.R. Anklam 0 to 290
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXXX~~ NOT LAGGED
0	150		No samples.
150	160	50	Siltstone, light green, siliceous.
		50	Siltstone, tan, siliceous.
160	170	100	Siltstone, tan, as above.
170	180	100	Sandstone, pale green, fine, sub rounded, poorly sorted, very argillaceous.
180	190	30	Shale, medium grained, siliceous.
		70	Shale, medium grained, mottled orange siliceous.
190	200	50	Shale, medium grained, siliceous.
		50	Siltstone, gray.
200	210	100	Shale, medium grained, mottled orange.
210	220	30	Shale, as above.
		70	Sandstone, white-pale green, fine-medium, sub rounded-well rounded, frosted with fragments gray and green shale, slightly calcareous.
220	230	20	Shale, as above.
		80	Sandstone, as above.
230	250	10	Shale, as above.
		90	Sandstone, as above.
250	260	80	Sandstone, as above.
		20	Limestone, olive gray, IVFA sandy.
260	270	90	Sandstone, as above.
		10	Limestone, as above.
270	280	90	Sandstone, as above with chert fragments, pyritic.
		10	Limestone, as above.
280	290	30	Sandstone, as above, green, argillaceous.
		70	Shale, medium grained.

DITCH SAMPLES

Examined by J.R. Anklam 290 to 450
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~WASHED~~ NOT LAGGED
290	300	50	Sandstone, as above, becoming fine-very fine.
		50	Shale, as above.
300	310	50	Sandstone, as above, not argillaceous, not pyritic.
		50	Shale, as above.
310	320	50	Sandstone, as above.
		50	Shale, pale green, very sandy.
320	330	70	Sandstone, as above.
		30	Shale, as above.
330	350	80	Sandstone, as above.
		20	Shale, as above.
350	360	80	Sandstone, white, fine-medium, angular-sub rounded, fairly well sorted.
		20	Shale, pale green.
360	370	10	Bentonite, red.
		70	Sandstone, as above.
		20	Shale, as above.
370	380	30	Bentonite, red.
		40	Sandstone, as above.
		30	Shale, as above.
380	390	70	Sandstone, as above.
		30	Shale, as above.
390	400	80	Sandstone, as above.
		20	Shale, as above.
400	430	90	Sandstone, as above.
		10	Shale, as above.
430	450	100	Sandstone, white-pale orange, fine, angular, fairly well sorted.

DITCH SAMPLES

Examined by J.R. Anklam 450 to 720
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXX~~ NOT LAGGED
450	470		Skip.
470	500	100	Shale, red, gray, green, bentonitic.
500	510	100	Shale, brown, gray, green, with chert fragments.
510	530	100	Sandstone, pale orange, fine, angular, well sorted, calcareous.
530	540		Skip.
540	550	100	Shale, brown, very calcareous, sandy.
550	560	30	Sandstone, pale gray, very fine, angular, well sorted, very calcareous.
		70	Shale, brown, soft medium calcareous.
560	570	30	Sandstone, as above, not calcareous.
		70	Shale, as above.
570	580	20	Sandstone, as above, calcareous.
		80	Shale, as above.
580	590	20	Sandstone, as above, very calcareous.
		80	Shale, as above.
590	600	30	Sandstone, as above.
		70	Shale, as above.
600	610	80	Sandstone, tan, very fine, angular, well sorted, very calcareous.
		20	Shale, brown, calcareous.
610	620	100	Shale, brown, mottled green, very calcareous.
620	680	100	Sandstone, light brown, very fine-fine, sub rounded-well rounded, poorly sorted, slightly calcareous, argillaceous, frosted.
680	690	100	Sandstone, as above, calcareous.
690	700		Skip.
700	710	100	Sandstone, as above.
710	720		Skip.

DITCH SAMPLES

Examined by J.R. Anklam 720 to 1140
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXXX~~ NOT LAGGED
720	740	100	Sandstone, as above, not calcareous.
740	760		Skip.
760	770	80	Sandstone, becoming light orange, as above.
		20	Shale, brown, green, calcareous, sandy.
770	780	70	Sandstone, as above.
		30	Shale, as above.
780	790	60	Sandstone, as above.
		40	Shale, as above.
790	800	70	Sandstone, as above.
		30	Shale, as above.
800	850	80	Sandstone, as above.
		20	Shale, as above, not sandy.
850	900	80	Sandstone, as above, slightly calcareous.
		20	Shale, as above.
900	920	100	Sandstone, brown, very fine, angular, calcareous, argillaceous, frosted.
920	940	100	Sandstone, as above, very calcareous.
940	980	100	Sandstone, white, fine, angular-well rounded, well sorted, frosted.
980	1050		Skip.
1050	1060	90	Sandstone, as above.
		10	Shale, brown, calcareous.
1060	1070	80	Sandstone, as above.
		20	Shale, as above.
1070	1080	70	Sandstone, as above.
		30	Shale, as above.
1080	1140	100	Sandstone, pale orange, very fine, angular, well sorted.

DITCH SAMPLES

Examined by J.R. Anklam 1140 to 2210
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~WASHED~~ NOT LAGGED
1140	1200	100	Sandstone, red, green, angular-sub rounded, well sorted.	
1200	1300	100	Sandstone, tan-pale orange, very fine, angular, well sorted.	
1300	1560	100	Sand, very fine-fine, angular-sub rounded, with few fine rounded frosted grains.	
1560	1570		Skip.	
1570	1650	100	Sand, as above.	
1650	1770	100	Sand, as above, with few orange stained grains.	
1770	1800	100	Shale, orange, calcareous.	
1800	1820	100	Shale, dark brown, red.	
1820	1850	100	Shale, as above, sandy.	
1850	1900	100	Sand, very fine-fine, as above.	
1900	1920	100	Shale, red, calcareous.	
1920	2000	100	Siltstone, red, calcareous.	
2000	2040	100	Shale, red, calcareous, silty.	
2040	2050	100	Siltstone, red, calcareous.	
2050	2080	100	Siltstone, as above, very calcareous.	
2080	2090	60	Siltstone, as above.	
		40	Shale, red.	
2090	2100	50	Siltstone, as above.	
		50	Shale, as above.	
2100	2150	50	Shale, red, non calcareous.	
		50	Shale, orange, calcareous.	
2150	2200	100	Shale, red.	
2200	2210	60	Shale, red.	
		40	Shale, orange, calcareous.	

DITCH SAMPLES

Examined by J.R. Anklam 2210 to 2550
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~WASHED~~ NOT LAGGED
2210	2220		Skip.	
2220	2240	40	Shale, red.	
		60	Shale, orange, calcareous.	
2240	2250	30	Shale, red.	
		70	Shale, orange, calcareous.	
2250	2270	50	Shale, as above, red.	
		50	Shale, orange, as above.	
2270	2280	70	Shale, red.	
		30	Shale, orange, as above.	
2280	2290	80	Shale, red.	
		20	Shale, orange, as above.	
2290	2300	70	Shale, red.	
		30	Shale, orange, as above.	
2300	2310	50	Shale, red.	
		50	Shale, orange, as above.	
2310	2330	60	Shale, red.	
		40	Shale, orange, as above.	
2330	2340	70	Shale, red.	
		30	Shale, orange, as above.	
2340	2370		Skip.	
2370	2400	100	Shale, red.	
2400	2500	100	Shale, red, very calcareous.	
2500	2530	100	Shale, red.	
2530	2550	80	Shale, as above.	
		20	Limestone, red, IVFA.	

DITCH SAMPLES

Examined by J.R. Anklam 2550 3160
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~LAGGED~~ NOT LAGGED
2550	2590	100	Shale, as above.	
2590	2600	80	Shale, as above.	
		20	Limestone, as above.	
2600	2630	100	Shale, red, very calcareous.	
2630	2640		Skip.	
2640	2670	100	Shale, as above.	
2670	2700	90	Shale, as above.	
		10	Shale, purple.	
2700	2730	100	Shale, light green, light red purple, soft.	
2730	2750	90	Shale, as above.	
		10	Sandstone, white, fine.	
2750	2770	100	Sandstone, white, conglomerate, with coarse fragments yellow chert and gray chert.	
2770	2780	100	Shale, light red, light purple.	
2780	2790	50	Sandstone, white, mottled green, fine, angular.	
		50	Shale, light gray.	
2790	2810		Skip.	
2810	2900	100	Shale, light green, purple, red, soft, sandy, slightly bentonitic.	
2900	2980	100	Shale, green, purple, slightly bentonitic.	
2980	3000	100	Sandstone, orange, very fine, angular, with abundant fine orange staining, well rounded grains.	
3000	3030	100	Siltstone, brown orange.	
3030	3040	100	Shale, red.	
3040	3070		Skip.	
3070	3140	100	Siltstone, orange.	
3140	3160	100	Siltstone, orange, calcareous.	

DITCH SAMPLES

Examined by J.R. Anklam 3160 to 3450
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXXX~~ NOT LAGGED
3160	3170	60	Siltstone, as above.
		40	Shale, light green, soft.
3170	3180	80	Siltstone, as above.
		20	Shale, as above.
3180	3190	70	Siltstone, as above.
		30	Shale, as above.
3190	3200	70	Sandstone, orange, very fine, angular, well sorted, very calcareous.
		30	Shale, as above.
3200	3220	80	Sandstone, as above, micaceous.
		20	Shale, as above.
3220	3230	90	Sandstone, as above.
		10	Shale, as above.
3230	3240	90	Shale, orange, calcareous, sandy.
		10	Shale, as above.
3240	3250	100	Shale, as above.
3250	3310	100	Shale, as above, very calcareous, very sandy.
3310	3320	100	Siltstone, orange, very calcareous.
3320	3330	70	Siltstone, orange, calcareous.
		30	Shale, pale green.
3330	3350	100	Sandstone, red, fine-medium, angular, poorly sorted, arkosic, micaceous, calcareous, argillaceous.
3350	3390	100	Siltstone, orange, very calcareous.
3390	3400	80	Shale, red, calcareous, silty.
		20	Shale, pale green.
3400	3440	100	Siltstone, as above.
3440	3450	100	Sandstone, orange, very fine, angular, very micaceous, very calcareous.

DITCH SAMPLES

Examined by J.R. Anklam 3450 to 4010
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
3450	3470	100	Sandstone, red, orange, fine-medium, angular, poorly sorted, slightly calcareous,	
3470	3490	100	Siltstone, orange, as above.	
3490	3500	100	Shale, red, silty.	
3500	3550	100	Shale, as above, soft, very calcareous.	
3550	3650	100	Shale, as above, calcareous.	
3650	3660	100	Siltstone, green, very calcareous.	
3660	3720	100	Siltstone, red, very calcareous.	
3720	3750	100	Shale, red, very calcareous.	
3750	3830	100	Shale, orange, soft, very calcareous.	
3830	3850	100	Shale, orange, medium calcareous, silty.	
3850	3890	100	Siltstone, orange, very calcareous.	
3890	3910	100	Shale, red, silty, slightly calcareous.	
3910	3920	70	Shale, as above.	
		30	Shale, pale green.	
3920	3930	80	Shale, red, as above.	
		20	Shale, pale green.	
3930	3940	70	Shale, red, as above.	
		30	Shale, pale green.	
3940	3950	60	Shale, red, as above.	
		40	Shale, pale green.	
3950	3960	100	Shale, green and red.	
3960	3980	100	Shale, red, calcareous, silty.	
3980	4000	100	Sandstone, red, calcareous, argillaceous.	
4000	4010	100	Shale, red, calcareous.	

DITCH SAMPLES

Examined by J.R. Anklam 4010 to 4280
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES NOT LAGGED
4010	4020	90	Shale, as above.	
		10	Limestone, as above.	
4020	4030	100	Sandstone, very calcareous.	
4030	4070	100	Shale, as above.	
4070	4090	100	Sandstone, as above.	
4090	4110	100	Shale, as above.	
4110	4130	100	Siltstone, red, calcareous.	
4130	4140	100	Sandstone, calcareous.	
4140	4160		Skip.	
4160	4170	100	Siltstone, as above.	
4170	4180	80	Sandstone, as above.	
		20	Limestone, as above.	
4180	4190	50	Siltstone, as above.	
		30	Shale, red.	
		20	Limestone, as above.	
4190	4200	50	Siltstone, as above.	
		50	Shale, as above.	
4200	4210	70	Shale, red, calcareous.	
		20	Siltstone, as above.	
		10	Limestone, as above.	
4210	4260	70	Shale, as above.	
		30	Siltstone, as above.	
4260	4270	100	Sandstone, calcareous.	
4270	4280	50	Siltstone, red, calcareous.	
		50	Sandstone, as above.	

DITCH SAMPLES

Examined by J.R. Anklam 4280 to 4600
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXX~~ NOT LAGGED
4280	4290	50	Siltstone, as above.
		40	Sandstone, as above.
		10	Anhydrite.
4290	4300	50	Siltstone, as above.
		30	Sandstone, as above.
		20	Limestone, as above.
4300	4310	50	Shale, red, calcareous.
		40	Siltstone, as above.
		10	Limestone, as above.
4310	4470	50	Shale, as above.
		50	Siltstone, as above.
4470	4500	100	Shale, as above.
4500	4510	50	Shale, red, calcareous, silty.
		50	Shale, light gray, green, silty.
4510	4520	60	Shale, red, as above.
		40	Shale, light gray green, as above.
4520	4550	100	Shale, red, calcareous.
4550	4570	60	Shale, red, as above.
		40	Shale, light green, silty.
4570	4580	40	Shale, light green, sandy.
		60	Shale, orange, silty, calcareous.
4580	4590	30	Shale, light green as above.
		70	Shale, orange, as above.
4590	4600	100	Limestone, white-pale orange, I-III VF-FA, orange cherty.

DITCH SAMPLES

Examined by J.R. Anklam 4600 to 4800
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
4600	4610	20	Shale, green, as above.	
		60	Shale, orange, silty, calcareous.	
		20	Limestone, as above.	
4610	4660	100	Shale, orange-red, slightly calcareous, silty.	
4660	4670	10	Shale, light green, sandy.	
		90	Shale, orange, as above.	
4670	4680	20	Shale, light green, as above.	
		80	Shale, orange, as above.	
4680	4700	30	Shale, light green, as above.	
		70	Shale, orange, as above.	
4700	4720	30	Shale, light green, as above.	
		70	Shale, orange, as above.	
4720	4750	40	Shale, light green, as above.	
		60	Shale, orange, as above.	
4750	4760	20	Shale, light green, sandy.	
		80	Shale, orange, as above.	
4760	4770	30	Shale, light green, as above.	
		70	Shale, orange, as above.	
4770	4780	40	Shale, light green, as above.	
		60	Shale, orange, as above.	
4780	4790	30	Shale, light green, as above.	
		70	Shale, orange, as above.	
4790	4800	20	Shale, light green, as above.	
		60	Shale, orange, as above.	
		20	Limestone, light gray, IVFA.	

DITCH SAMPLES

Examined by J.R. Anklam 4800 to 4960
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~LAGGED~~ NOT LAGGED
4800	4810	20	Shale, as above.	
		60	Shale, as above.	
		20	Limestone, as above.	
4810	4820	40	Shale, green.	
		60	Shale, orange, slightly calcareous, silty.	
4820	4830		Skip.	
4830	4840	100	Limestone, tan, I-III VF-FA with fragments orange opaque chert.	
4840	4850	90	Shale, orange, calcareous.	
		10	Limestone, as above.	
4850	4855	100	Limestone, tan, IVFA.	
4855	4860		Skip.	
4860	4865	100	Limestone, light gray, IVFA.	
4865	4870	50	Limestone, as above with fragments black opaque chert.	
		50	Limestone, medium gray, III FA, argillaceous.	
4870	4875	100	Limestone, tan, III FA with fragments tan, translucent chert.	
4875	4885	100	Limestone, as above, no chert.	
4885	4890	100	Limestone, as above with chert fragments as above.	
4890	4900	100	Limestone, tan-white, I-III VF-FA with rare dark brown opaque chert.	
4900	4920	100	Limestone, tan, IVFA. Samples mostly red shale.	
4920	4930	100	Limestone, tan, IVFA, sandy.	
4930	4935		Skip.	
4935	4940	100	Limestone, light brown, III FA.	
4940	4945	100	Sandstone, white, very fine, angular, well sorted, very calcareous.	
4945	4950	100	Sandstone, as above.	
4950	4960	100	Limestone, tan, III FA.	

DITCH SAMPLES

Examined by J.R. Anklam 4960 5070
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES
4960	4965	100	Limestone, tan, IVFA.	
4965	4970	30	Shale, medium gray.	
		70	Limestone, as above.	
4970	4975	100	Limestone, tan, I-III VF-FA.	
4975	4985	100	Limestone, white-tan, IVF-FA with gray specks, fossil shadows, few fragments, white transparent chert.	
4985	4990	20	Chert, as above.	
		80	Limestone, as above.	
4990	5000	10	Chert, as above.	
		90	Limestone, as above.	
5000	5005	90	Shale, orange, calcareous, silty.	
		10	Limestone, as above.	
5005	5010	100	Limestone, tan, IVFA.	
5010	5015	20	Limestone, as above.	
		80	Shale, orange, silty.	
5015	5020	30	Shale, medium gray.	
		70	Shale, orange, silty.	
5020	5030	100	Shale, brown, green, orange.	
5030	5035	80	Shale, as above.	
		20	Limestone, tan, IVFA.	
5035	5040	90	Shale, as above.	
		10	Limestone, light gray, IVFA.	
5040	5065	100	Shale, as above.	
5065	5070	80	Shale, as above.	
		20	Limestone, tan, IVFA.	

DITCH SAMPLES

Examined by J.R. Anklam 5070 to 5205
B.B. Robinson to ____

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXXX~~ NOT LAGGED
5070	5075	100	Shale, as above.	
5075	5085	100	Shale, medium gray.	
5085	5090	90	Shale, as above.	
		10	Limestone, light gray, IVFA.	
5090	5095	100	Limestone, pale gray, IVFA.	
5095	5100	60	Shale, medium gray.	
		40	Limestone, as above.	
5100	5105	100	Limestone, white, I-III VF-FA.	
5105	5110	60	Shale, medium gray.	
		40	Limestone, as above.	
5110	5115	80	Shale, as above.	
		20	Limestone, as above.	
5115	5130	100	Shale, gray, brown, orange.	
5130	5135	100	Shale, gray, green, red.	
5135	5140	100	Shale, medium gray, mottled brown.	
5140	5145	80	Shale, as above.	
		20	Limestone, white, IVFA, very sandy.	
5145	5150	100	Shale, medium gray, mottled brown.	
5150	5170	100	Shale, medium gray, mottled brown, calcareous.	
5170	5175	70	Shale, medium gray, calcareous.	
		30	Limestone, light gray, IVFA.	
5175	5195	100	Shale, medium gray, mottled brown, calcareous.	
5195	5200	50	Shale, as above.	
		50	Limestone, light gray, IVFA, sandy.	
5200	5205	100	Shale, as above.	

DITCH SAMPLES

Examined by J.R. Anklam 5205 to 5290
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXXX~~ NOT LAGGED
5205	5210	100	Limestone, tan, IVFA, sandy.	
5210	5215	100	Limestone, as above, with fragments clear chert.	
5215	5220	100	Shale, as above.	
5220	5225	100	Limestone, tan, IVFA, with fragments milky white opaque chert.	
5225	5230	50	Shale, medium gray.	
		50	Limestone, light gray, IVFA.	
5230	5235	60	Shale, as above.	
		40	Limestone, as above.	
5235	5240	70	Shale, as above.	
		30	Limestone, as above.	
5240	5245	50	Siltstone, gray, very calcareous.	
		30	Shale, as above.	
		20	Limestone, as above.	
5245	5250	70	Shale, as above.	
		30	Limestone, as above.	
5250	5260	60	Shale, medium gray, calcareous.	
		40	Shale, light gray, very soft, very calcareous.	
5260	5265	100	Shale, light gray, as above.	
5265	5270	90	Limestone, light brown gray, I-III VF-FA.	
		10	Chert, light gray, translucent.	
5270	5275	100	Limestone, with chert as above.	
5275	5280	100	Limestone, tan, IVFA, slightly sandy.	
5280	5285	100	Limestone, light brown, IVF-MA, with light gray translucent chert.	
5285	5290	50	Shale, medium gray, calcareous.	
		50	Limestone, as above, crinoids.	

DITCH SAMPLES

Examined by J.R.Anklam 5290 to 5370
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES XXXXXX NOT LAGGED
5290	5295	60	Shale, as above.	
		40	Limestone, tan, IVFA.	
5295	5300	70	Shale, medium gray, calcareous.	
		30	Limestone, light gray, III-FA.	
5300	5320	100	Limestone, light gray, I-III VF-FA.	
5320	5325	50	Shale, light gray, silty, calcareous.	
		50	Limestone, as above.	
5325	5330	50	Shale, medium gray, mottled brown, calcareous-very calcareous.	
		50	Limestone, tan, IVFA.	
5330	5335	60	Shale, as above.	
		40	Limestone, as above.	
5335	5340	60	Shale, as above.	
		40	Limestone, as above.	
5340	5345	70	Shale, as above.	
		30	Limestone, tan, III-MA.	
5345	5350	80	Shale, as above.	
		20	Limestone, tan, IVFA.	
5350	5355	70	Limestone, tan-white, I-III VF-FA.	
		30	Shale, as above.	
5355	5360	60	Shale, medium gray, mottled brown.	
		40	Sandstone, gray, very fine, very calcareous.	
5360	5365	40	Shale, as above.	
		60	Sandstone, as above.	
5365	5370	40	Shale, as above.	
		60	Limestone, light gray, IVFA.	

DITCH SAMPLES

Examined by J.R. Anklam 5370 5525
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
5370	5375	100	Limestone, gray, IVFA.	
5375	5380	100	Limestone, gray brown, IVFA.	
5380	5385	60	Shale, as above.	
		40	Limestone, as above.	
5385	5390	80	Shale, as above.	
		20	Limestone, as above.	
5390	5400	100	Shale, medium gray, mottled brown.	
5400	5430	100	Shale, medium gray, mottled brown.	
5430	5440	100	Shale, light gray, slightly calcareous.	
5440	5445	100	Shale, light green, mottled purple.	
5445	5450	80	Shale, as above.	
		20	Limestone, light gray, IMA.	
5450	5465	100	Shale, light green and gray.	
5465	5470	70	Shale, as above.	
		30	Limestone, medium gray, III FA, argillaceous.	
5470	5495	100	Shale, as above.	
5495	5500	70	Shale, as above.	
		30	Limestone, light gray brown, IVFA.	
5500	5505	80	Shale, light green and gray.	
		20	Limestone, white, IVFA.	
5505	5510	80	Shale, as above.	
		20	Limestone, tan, IVFA.	
5510	5515	100	Shale, light green, mottled purple.	
5515	5525	70	Shale, as above.	
		30	Limestone, tan, I-III VF-FA.	

DITCH SAMPLES

Examined by J.R. Anklam 5525 to 5615
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
5525	5530	100	Limestone, light gray, IVF-FA.	
5530	5535	50	Shale, as above.	
		50	Limestone, as above.	
5535	5540	70	Shale, as above.	
		30	Limestone, as above.	
5540	5550	100	Shale, as above.	
5550	5555	90	Shale, as above.	
		10	Limestone, light gray, IVFA.	
5555	5565	100	Shale, as above.	
5565	5570	90	Shale, as above.	
		10	Limestone, light gray, IVFA.	
5570	5575	90	Shale, as above.	
		10	Limestone, tan, IVFA, sandy.	
5575	5580	100	Shale, as above.	
5580	5585	70	Shale, as above.	
		30	Sandstone, light gray, very fine, angular, very calcareous.	
5585	5590	100	Shale, as above.	
5590	5595	60	Shale, as above.	
		40	Limestone, tan, I-III VF-FA.	
5595	5600	80	Shale, as above.	
		20	Limestone, as above.	
5600	5610	90	Shale, light green, mottled brown and purple.	
		10	Limestone, light gray, IVFA.	
5610	5615	80	Shale, as above.	
		20	Limestone, white, IVFA.	

DITCH SAMPLES

Examined by J.R. Anklam 5615 to 5700
B.B. Robinson

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXXX~~ NOT LAGGED
5615	5620	100	Shale, as above.	
5620	5625	50	Shale, as above.	
		50	Limestone, medium gray brown, IVFA.	
5625	5630	100	Limestone, as above.	
5632	5635	80	Shale, as above.	
		20	Limestone, as above.	
5635	5640	40	Shale, as above, mostly light green.	
		60	Limestone, tan, I-III VF-FA.	
5640	5650	50	Shale, as above.	
		50	Limestone, as above.	
5650	5655	70	Shale, as above.	
		30	Limestone, as above with clear chert fragments.	
5655	5660	30	Shale, as above.	
		70	Limestone, light brown, IVFA with chert as above.	
5660	5665	60	Shale, as above.	
		40	Limestone, tan, IIIMA.	
5665	5675	100	Limestone, as above, I-III VF-MA.	
5675	5685	90	Shale, as above.	
		10	Limestone, tan, IVFA.	
5685	5690	90	Shale, as above.	
		10	Limestone, as above with light brown translucent chert fragments.	
5690	5695	70	Shale, as above.	
		30	Limestone, as above with chert fragments.	
5695	5700	90	Limestone, as above.	
		10	Chert, as above.	

DITCH SAMPLES

Examined by J.R. Anklam 5700 to 5795
B.B. Robinson to

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~LAGGED~~ NOT LAGGED
5700	5710	100	Limestone, light gray, III FA, with few chert fragments, as above.	
5710	5715	100	Shale, medium gray, calcareous.	
5715	5720	100	Limestone, dark gray, III FA, very argillaceous.	
5720	5725	100	Shale, medium gray, very calcareous.	
5725	5730	30	Shale, black, very calcareous.	
		70	Limestone, dark gray, III FA, argillaceous.	
5730	5735	40	Shale, as above.	
		60	Limestone, as above.	
5735	5740	40	Shale, as above.	
		60	Limestone, as above.	
5740	5750	30	Shale, as above.	
		70	Limestone, as above, I-III VF-FA, slightly argillaceous in 5745-5750.	
5750	5755	100	Limestone, light-medium gray, I-III VF-FA.	
5755	5760	100	Sandstone, light gray, very fine, angular, well sorted, very calcareous.	
5760	5765	10	Anhydrite, white, coarse, crystalline.	
		70	Shale, medium grain, calcareous.	
		30	Limestone, tan, IVFA, anhydritic.	
5765	5780	30	Anhydrite, as above.	
		70	Shale, medium gray, calcareous.	
5780	5787	50	Limestone, tan, IVFA, anhydritic.	
		50	Dolomite, medium brown, III FA, anhydritic.	
5787	5791	100	Limestone, light brown, gray, I-III VF-MA, anhydritic, with one fragment dark brown, opaque chert.	
5791	5795	50	Limestone, white, III FA.	
		50	Limestone, medium brown, III FA, dolomitic.	

DITCH SAMPLES

Examined by J.R. Anklam 5795 to 5825
B.B. Robinson ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
5795	5800	100	Limestone, gray, I-III VF-FA.	
5800	5810	100	Limestone, tan-light green, I-III VF-FA, very slight trace bright yellow fluorescence, very pale cut fluorescence when crushed.	
5810	5815	100	Limestone, medium gray, brown, III-FA, fluorescence and cut fluorescence, as above.	
5815	5825	100	Limestone, as above, no fluorescence, I-III VF-FA.	

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 5788 TO 5838

CORES EXAMINED BY Langford & Knight

CORE RECORD

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
1	5788	5838	50'				
	5788	5789	1	Sandstone, light gray, very fine, angular, well sorted, calcareous, tightly cemented.			See Description
	5789	5790	1	Sandstone, as above.			
	5790	5791	1	Sandstone, as above.			
	5791	5792	1	Sandstone, as above.			
	5792	5793	1	Limestone, tan, IVF-FA.			
	5793	5794	1	Limestone, tan, IVF B_2+ Tr C; Fluorescence along one vertical fracture.			
	5794	5795	1	Limestone, as above, with 15% bright blue spotty fluorescence.			
	5795	5796	1	Limestone, as above, with bright blue fluorescence along one hairline fracture.			
	5796	5797	1	Limestone, tan, IVF-FA with scattered fusulinids.			
	5797	5798	1	Limestone, light gray brown, IVFA with abundant fusulinids and forams.			
	5798	5799	1	Limestone, light gray brown, III F-MA.			
	5799	5800	1	Limestone, light gray, I-III F-M B_1 + tr. C with abundant fusulinids and forams.			
	5800	5801	1	Limestone, light gray, IVFA, stylolitic.			
	5801	5802	1	Limestone, light gray and brown, III VF-F B_1 + C_1 with bright blue fluorescence along one vertical fracture; fusulinids.			
	5802	5803	1	Limestone, pale gray, I-III VF-F B_5+ C_1 with 50% bright blue yellow fluor., medium blue yellow cut fluorescence; rare small smooth brachs.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 5788 TO 5838

CORES EXAMINED BY

CORE RECORD

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
1	Cont.						See Description
	5803	5804	1	Limestone, as above with fluorescence as above, along one vertical fracture.			
	5804	5805	1	Limestone, light gray, I-III VF-F B_5 + C_2 with productid brachs; 30% bright blue yellow spotty fluorescence, weak cut fluorescence.			
	5805	5806	1	Limestone, light gray, III M C_1 + B_1 with abundant fusulinids; 50% bright blue yellow spotty fluorescence, strong milky cut fluorescence.			
	5806	5807	1	Limestone, light gray, III M C_5 + B_1 + D_1 with rare fusulinid; 90-100% bright blue fluorescence, strong milky cut fluorescence.			
	5807	5808	1	Limestone, light gray, I-VFA with 50% patches C_{3-5} + Tr. D with patches fluorescence, as above.			
	5808	5809	1	Limestone, light gray, IVF-FA with 40% patches C_3 + B_1 + Tr. D: 70% bright blue yellow fluorescence, strong cut fluorescence.			
	5809	5810	1	Limestone, light gray, III M C_3 + D_2, fibrous in part; 70% fluorescence, as above.			
	5810	5811	1	Limestone, light gray, I-III VF-F C_2 + D_8; 30% bright yellow blue fluorescence, strong cut fluorescence (mud penetrated center of core).			
	5811	5812	1	Limestone, as above, C_5 + D_2; 60% fluorescence as above (mud penetrated core)			
	5812	5813	1	Limestone, light gray, III F-M C_2 + D_3; 80% fluorescence as above; brachiopod fragments, mud as above.			
	5813	5814	1	Limestone, as above; 40% fluorescence, as above, mud as above.			
	5814	5815	1	Limestone, light gray, IVF C_5 + D_5; 60% fluorescence as above, mud as above.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING

CORE FROM 5788 TO 5838

CORES EXAMINED BY Langford & Knight

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
1	Cont.						See Description
	5815	5816	1	Limestone, as above, light gray.			
	5816	5817	1	Limestone, light gray, IM D_2 + Tr. C; 40% fluorescence as above.			
	5817	5818	1	Limestone, light gray, I F-M C_1 + Tr. D; 30% fluorescence as above.			
	5818	5819	1	Limestone, light brown, I-III VF-L C_2 + D_3; 70% fluorescence as above, abundant irregular crystals filling D vugs.			
	5819	5820	1	Limestone, as above C_2 + D_1; 70% fluorescence as above, small brachiopods.			
	5820	5821	1	Limestone, tan, I-III VF-F C_5 with rare crinoid fragments and small smooth brachiopods.			
	5821	5822	1	Limestone, light gray, I-III VF-F C_2.			
	5822	5823	1	Limestone, light gray, I-III VF-FA with trace C; one surface shows bright yellow blue fluorescence, as above, spotty.			
	5823	5824	1	Limestone, tan, I F-M C_1.			
	5824	5825	1	Limestone, light gray, III FA matrix with spotty C_3 + D_1.			
	5825	5826	1	Limestone, tan III M-L C_5 + D_1; 70% bright yellow blue fluorescence, medium-strong cut fluorescence.			
	5826	5827	1	Limestone, as above B_3 + C_2.			
	5827	5828	1	Limestone, tan, III F-M B_2.			
	5828	5829	1	Limestone, light gray and tan, III F-L B_1.			
	5829	5830	1	Dolomite, tan, III M B_3, anhydritic.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 5788 TO 5838

CORES EXAMINED BY Langford & Knight

CORE RECORD

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL, AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
1	Cont.						See Description
	5830	5831	1	Dolomite, tan III F-MA + Tr. B with small rounded pods white anhydrite.			
	5831	5832	1	Dolomite, as above, B_1.			
	5832	5833	1	Dolomite, as above, no porosity.			
	5833	5834	1	Dolomite, tan, III FA with anhydrite as above.			
	5834	5835	1	Dolomite, as above, III F B_1 with anhydrite; 20% bright yellow blue fluorescence (spotty).			
	5835	5836	1	Dolomite, as above, 60% fluorescence, as above.			
	5836	5837	1	Dolomite, as above, with trace B.			
	5837	5838	1	Dolomite, as above B_1.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 5838 TO 5888

CORES EXAMINED BY Knight and Langford

CORE RECORD

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
2	5838	5888	50'				
	5838	5839	1	Dolomite, light gray, III FA with Tr. B, very calcareous with brachiopod fragments, small anhydrite inclusions.			See Description
	5839	5840	1	Dolomite, as above, calcareous, with abundant small smooth brachiopods; 60% bright blue yellow fluorescence, medium cut fluorescence, very light oil stain.			
	5840	5843	2	Limestone, light brown gray, I-III VF-FA, stylolitic, bright blue fluorescence along rare hairline fracture.			
	5843	5844	1	Limestone, tan - light brown, III FA, dolomitic with abundant brachiopods, as above, 10% light blue fluorescence, no cut fluorescence, faint petroleum odor.			
	5844	5845	1	Limestone, light gray brown, I-III VF-MA.			
	5845	5846	1	Limestone, medium gray, I-M-LA, very argillaceous, crinoidal.			
	5846	5847	1	Limestone, medium gray, I LA, argillaceous, dolomitic, very crinoidal gradational contact with shale below.			
	5847	5888	41	Shale, black, calcareous, minutely micaceous with very rare orbituloid brachiopod, core in shale breaks easily in approximate horizontal plane.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING

CORE FROM 5888 TO 5938

CORES EXAMINED BY Knight & Langford

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
3	5888	5938	49'				See Description
	5888	5894.6	6.6	Shale, black, calcareous with gradational and horizontal contact at base; 5894.5 bleeding oil from fine horizontal fracture.			
	5894.6	5901.5	6.9	Sandstone, medium gray, very fine, angular, well sorted, calcareous, argillaceous.			
	5901.5	5903	1.5	Dolomite, dark brown gray, III VFA, very argillaceous; bleeding light green oil from rare hairline fractures.			
	5903	5905	2	Dolomite, gray brown, III FA, very argillaceous.			
	5905	5906.5	1.5	Shale, black micaceous.			
	5906.5	5924.7	18.2	Anhydrite, light-medium gray, massive with rare irregular shale stringers; irregular basal contact.			
	5924.7	5927.8	3.1	Dolomite, medium gray brown, III FA, argillaceous with gradational basal contact with irregular inclusions white anhydrite - very faint petroleum odor, no fluorescence.			
	5927.8	5930	2.2	Limestone, gray, I-FA, argillaceous.			
	5930.0	5930.5	.5	Shale, black, very calcareous.			
	5930.5	5932	1.5	Limestone, gray, I-FA, argillaceous.			
	5932	5932.4	.4	Shale, as above.			
	5932.4	5937	4.6	Limestone, black I-FA, very argillaceous with trace fossil debris.			

Note: All contacts seem gradational.

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.

PD 4-B 8-50

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING

CORE FROM 5938 TO 5989

CORES EXAMINED BY Knight & Langford

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
4	5938	5989	51'				See Description
	5938	5940	2	Sandstone, light gray, very fine, angular, well sorted, calcareous.			
	5940	5944	4	Anhydrite, light gray, massive, irregularly interbedded with black shale and dark gray brown, I-III VF-FA dolomite.			
	5944	5948	4	Dolomite, medium gray, III FA.			
	5948	5950	2	Shale, dark gray, very silty, calcareous with fine micaceous and carbonaceous particles.			
	5950	5954	4	Dolomite, light gray brown, III FA, argillaceous, slightly carbonaceous.			
	5954	5956	2	Dolomite, dark brown, III FA with very weak spotty blue fluorescence, no cut fluorescence, slight petroleum odor.			
	5956	5957	1	Dolomite, light brown, III FA, slightly carbonaceous.			
	5957	5961	4	Limestone, tan, III FA, dolomitic - very dolomitic.			
	5961	5962	1	Limestone, tan, I F-LA.			
	5962	5963	1	Limestone, medium brown gray, III FA, argillaceous.			
	5963	5964	1	Shale, black, silty, micaceous.			
	5964	5965	1	Limestone, dark brown black, III FA, very argillaceous.			
	5965	5967	2	Limestone, dark gray, I F-MA, very argillaceous, abundant very small brachiopods and crinoid stems.			
	5967	5968	1	Dolomite, tan, III FA, faint pale blue fluorescence, very slight petroleum odor.			
	5969	5971	2	Limestone, light brown, IVFA, dolomitic, crinoidal.			

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.

PD 4-B 8-50

SHELL OIL COMPANY

CORE RECORD

WEEK ENDING

CORE FROM 5938 TO 5989

CORES EXAMINED BY Knight & Langford

AREA OR FIELD Cahone Mesa

COMPANY Shell

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOV-ERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS CORE OR DITCH
4	Cont.						None
	5971	5976	5	Limestone, medium gray brown, III FA, argillaceous with abundant striated brachiopod fragments.			
	5976	5989	13	Shale, black, micaceous, calcareous.			

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.

DITCH SAMPLES

Examined by E.M. Wright 5990 to 6460
_____ ____ to ____

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED SAMPLES XXXXXX NOT LAGGED
5990	6005	100	Shale, black, slight to very slightly calcareous (samples badly caved)
6005	6010	90	Shale, as above.
		10	Limestone, I VFA, tan to light brown, very slightly sandy.
6010	6015	70	Shale, black, as above.
		30	Sandstone, gray, fine grain, calcareous.
6015	6020	70	Shale, as above.
		30	Sandstone, as above.
6020	6022	80	Shale, black, as above.
		10	Limestone, as above.
		10	Sandstone, as above.
6022	6200	100	Salt, (samples caved slightly).
6200	6220	100	Salt, with some interbedded milky anhydrite and black shale.
6220	6320	100	Salt.
6320	6350	100	Salt, occasional black shale and anhydrite cavings.
6350	6360	80	Salt.
		20	Shale, black, well bedded, non calcareous.
6360	6370	80	Salt.
		20	Shale, as above - probably interbedded.
6370	6380	100	Salt.
6380	6390	100	Shale, black, as above.
6390	6400	100	Shale, as above.
6400	6450	50	Salt.
		50	Shale, black, as above.
6450	6460	100	Salt.

DITCH SAMPLES

Examined by E.M. Wright 6460 to 6880
J.R. ANklam ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES NOT LAGGED
6460	6470	100	Salt.
6470	6520	100	Shale, black, well bedded, non-calcareous.
6520	6550	100	Shale, as above, some anhydrite, thin stringers?
6550	6560	70	Shale, black.
		30	Salt.
6560	6630	100	Salt.
6630	6640		Skip.
6640	6650	100	Salt.
6650	6690	80	Shale, black.
		20	Salt.
6690	6700	100	Salt, with occasional pyrite crystals included.
6700	6840	100	Salt.
6840	6850	80	Shale, black.
		20	Sandstone, very fine grain, medium brown, friable, non calcareous.
6850	6860	50	Shale, black.
		40	Sandstone, as above.
		10	Anhydrite, white, milky, occasionally pyritic.
6860	6870	20	Shale, black.
		60	Sandstone, as above.
		10	Anhydrite.
		10	Limestone, I VFA, medium brown, silty to very fine sand.
6870	6880	70	Sandstone, as above.
		30	Anhydrite.

DITCH SAMPLES

Examined by E.M. Wright 6880 to 6980
J.R. Anklam ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~XXXXX~~ NOT LAGGED
6880	6890	30	Sandstone, as above.
		30	Limestone, I VFA, slightly argillaceous, dark tan to medium gray.
		40	Anhydrite, white, opaque.
6890	6900	20	Sandstone, gray to medium brown, fine grained, slightly calcareous to very calcareous.
		50	Limestone, I VFA, argillaceous, sandy, light tan to light gray.
		30	Anhydrite.
6900	6905	100	Siltstone, gray, sandy, calcareous, occasionally pyritic.
6905	6915	70	Limestone, I VFA, medium tan, slightly argillaceous, somewhat sandy, anhydrite inclusions.
		30	Anhydrite, white, opaque.
6915	6925	20	Sandstone, gray, as above.
		80	Dolomite, light gray, I VFA, with anhydrite and pyrite inclusions, free pyrite crystals.
6925	6935	70	Dolomite, as above, with abundant pyrite, occasional chert.
		30	Anhydrite.
6935	6945		Skip.
6945	6950	50	Dolomite, I-III VFA, light tan, calcareous, slightly argillaceous.
		50	Anhydrite, white, opaque.
6950	6970	60	Dolomite, I VFA, occasional III VFA, calcareous to very calcareous.
		40	Anhydrite.
6970	6975	50	Limestone, I VFA, fossiliferous (?), dolomitic medium tan.
		30	Dolomite, as above.
		20	Anhydrite.
6975	6980	70	Limestone, I VFA, very dolomitic, medium tan, rare white chert, abundant pyrite.
		30	Anhydrite.

DITCH SAMPLES

Examined by E.M. Wright 6980 to 7045
_____ ____ to _____

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXXX~~ NOT LAGGED
6980	6990	100	Limestone, as above.	
6990	6995	20	Limestone, I VFA, medium tan, dolomitic in part.	
		50	Dolomite, I-III VFA, calcareous to very calcareous, medium tan to gray.	
		30	Anhydrite, white, opaque, abundant pyrite.	
6995	7000	40	Dolomite, I-III VFA, light tan to gray, calcareous.	
		30	Shale, black, well bedded.	
		30	Anhydrite, white, opaque, pyritic.	
7000	7005	50	Limestone, I-III VFA, dolomitic in part.	
		30	Shale, black.	
		20	Anhydrite, pyritic.	
7005	7015	60	Dolomite, I VFA, some III VFA, slightly calcareous to calcareous, light tan to light gray.	
		20	Anhydrite.	
		20	Shale, black, pyritic.	
7015	7020	40	Limestone, I VFA, dolomitic medium tan.	
		40	Dolomite, I-III VFA, calcareous.	
		20	Shale, black.	
7020	7025	70	Shale, black, dark brown, slightly calcareous.	
		30	Anhydrite.	
7025	7035	50	Dolomite, as above.	
		30	Shale, as above.	
		20	Anhydrite.	
7035	7040		Skip.	
7040	7045	30	Dolomite, as above.	
		70	Shale, black with white mottling, silty to very fine sand, calcareous.	

DITCH SAMPLES

Examined by E M Wright 7045 to 7130
J R Anklam ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~LAGGED~~ NOT LAGGED
7045	7050		Skip.
7050	7055	40	Limestone, I-III VFA, medium tan to gray, slightly dolomitic to dolomitic.
		30	Dolomite, III VFA, slightly calcareous to calcareous, gray.
		30	Shale, black with white inclusions (calcite).
7055	7060		Skip.
7060	7075	100	Limestone, I-III VFA, slightly dolomitic, medium brown to dark brown.
7075	7085	100	Limestone, I-VFA, some III VFA, medium brown, dark brown.
7085	7100	100	Limestone, I-II VFA, medium brown to light gray, occasional chert, also some anhydrite inclusions, 7090-7095, trace very pale yellow fluorescence with very pale milky cut fluorescence. 7095-7100, 10% pale-medium blue-yellow fluorescence with medium yellow slight milky cut fluorescence.
7100	7115	100	Limestone, I-II VFA, white, occasional chert, 7100-7105, 15% light blue yellow fluorescence with milky yellow cut fluorescence, 7105-7110, 3% fluorescence and cut fluorescence, as above, 7110-7115, trace very pale blue yellow fluorescence and very pale milky cut fluorescence.
7115	7120	100	Limestone, I-II VFA, white to light pink, some chert inclusions, fossiliferous? rare chert with spicules?
7120	7125	90	Limestone, I-II VFA, siliceous to slightly siliceous, some quartz crystal inclusions, 5% pale-medium blue-yellow fluorescence with milky yellow cut fluorescence.
		10	Chert, quartz, crystalline cluster, rare.
7125	7130	100	Limestone, as above, 4% fluorescence, as above, with very pale milky cut fluorescence.

DITCH SAMPLES

Examined by E.M. Wright 7130 to 7270
J.R. Anklam ___ to ___

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~LAGGED~~ NOT LAGGED
7130	7135	85	Limestone, as above. 4% fluorescence, milky cut fluorescence.	
		15	Chert, white to light tan, with calcite? spicules.	
7135	7145	80	Limestone, as above. Trace to 3% fluorescence, milky cut fluorescence.	
		20	Chert, as above, some calcareous inclusions.	
7145	7150	90	Limestone, I-II VFA, white to light tan, somewhat siliceous, also some chert inclusions.	
		10	Chert, light tan, with calcareous spots.	
7150	7155	100	Limestone, as above.	
7155	7160	80	Limestone, I VFA, medium tan to light gray, some chert inclusions.	
		10	Shale, light greenish, some purple, slightly calcareous.	
		10	Chert.	
7160	7165	70	Limestone, I VFA, medium brown, some green to purple mottling.	
		30	Shale, green and purple, slightly calcareous to calcareous.	
7165	7180	50	Limestone, I VFA, medium brown, light green and purple mottling, siliceous, chert inclusions.	
		30	Shale, light green and purple, calcareous to very calcareous.	
		20	Chert, amber to clear white.	
7180	7185	20	Limestone, I VFA, white, some green and purple mottling.	
		60	Shale, calcareous, green, purple.	
		20	Chert, clear, argillaceous.	
7185	7220	100	Shale, purple, green, some mottling, non calcareous.	
7220	7245	100	Shale, greenish gray, purple, some green with purple mottling.	
7245	7255	100	Shale, as above.	
7255	7270	70	Shale, as above.	
		30	Limestone, I-II VFA, white to light tan, some chert.	

DITCH SAMPLES

Examined by E M Wright 7270 to 7375
J R Anklam ___ to ___
Eskelsen

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED — SAMPLES ~~LAGGED~~ NOT LAGGED
7270	7275	50	Shale, as above.
		50	Limestone, I-II VFA, white to medium tan, siliceous?
7275	7280	100	Limestone, as above.
7280	7285	100	Limestone, white, II-I VFA, soft minor chert.
7285	7290	100	Limestone, as above.
7290	7295	100	Limestone, as above.
7295	7300	100	Limestone, as above, trace milky yellow fluorescence, pale milky yellow cut fluorescence when crushed.
7300	7305	100	Limestone, white II-I VFA, soft, trace pale milky white fluorescence, Pale milky white cut fluorescence.
7305	7310	100	Limestone, as above, fluorescence and cut fluorescence, as above.
7310	7315		Skip.
7315	7320	100	Limestone, as above, 100% fluorescence and cut fluorescence, as above.
7320	7325	100	Limestone, as above, trace fluorescence, as above.
7325	7330	100	Limestone, as above.
7330	7335	100	Limestone, as above.
7335	7340	100	Limestone, as above.
7340	7345	50	Limestone, white II-I VFA, soft.
		50	Dolomite, tan, I VFA, hard.
7345	7350	100	Dolomite, tan III-I VF-FA, hard, siliceous, slightly calcareous.
7350	7355	100	Dolomite, as above.
7355	7360	100	Dolomite, as above, very calcareous.
7360	7365	100	Dolomite, as above.
7365	7370	100	Limestone, white-tan I VFA, dolomitic.
7370	7375	100	Limestone, as above, cherty.

DITCH SAMPLES

Examined by Eskelsen 7375 to 7475
_____ ____ to _____

Well 1
Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES NOT LAGGED
7375	7380	50	Limestone, white II VFA, soft.	
		50	Dolomite, tan, III-I VF-FA.	
7380	7385	50	Limestone, as above.	
		50	Dolomite, as above.	
7385	7390	100	Dolomite, tan III FA plus trace B_{1-2}.	
7390	7395	100	Dolomite, as above.	
7395	7400		Skip.	
7400	7405	100	Dolomite, as above.	
7405	7410	100	Dolomite, as above plus Tr C_1, trace bright yellow fluorescence, pale milky yellow cut fluorescence.	
7410	7415	100	Dolomite, tan III FA plus tr. B_{1-2}, fluorescence, as above.	
7415	7420	100	Dolomite, as above, plus Tr. C_1, fluorescence as above.	
7420	7425	100	Dolomite, tan III VF-FA plus Tr. B_{1-2}, fluorescence as above.	
7425	7430	100	Dolomite, as above, 1% bright yellow fluorescence, strong milky yellow cut fluorescence.	
7430	7435	100	Dolomite, as above, fluorescence, as above.	
7435	7440	100	Dolomite, as above, fluorescence, as above.	
7440	7445	100	Dolomite, as above.	
7445	7450	100	Dolomite, tan III FA tr. B_{tr}, trace spotty milky yellow fluorescence, very pale yellow cut fluorescence.	
7450	7455	100	Dolomite, as above, fluorescence, as above.	
7455	7460	100	Dolomite, as above, fluorescence, as above.	
7460	7465	100	Dolomite, tan, III VF-FA.	
7465	7470	100	Dolomite, as above, trace shale, light-medium grained, very calcareous, fossiliferous.	
7470	7475	100	Dolomite, as above.	

DITCH SAMPLES

Examined by Eskelsen 7475 to 7575

Well 1

Field or Area Cahone Mesa

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXX~~ NOT LAGGED
7475	7480	100	Dolomite, III VF-FA.	
7480	7485	50	Dolomite, as above.	
		50	Limestone, white, II A.	
7485	7490	100	Limestone, as above.	
7490	7495	100	Limestone, as above.	
7495	7500	100	Dolomite, tan, III VF-FA tr. B_1.	
7500	7505	100	Dolomite, as above.	
7505	7510	75	Dolomite, as above.	
		25	Limestone, white, III-VF-FA.	
7510	7515	100	Dolomite, as above, calcareous.	
7515	7520	100	Dolomite, tan, III FA, Tr. B_{tr}.	
7520	7525	100	Dolomite, as above.	
7525	7530	75	Dolomite, tan, III-I VF-FA.	
7530	7535	25	Limestone, tan, I VFA.	
7530	7535	100	Limestone, as above.	
7535	7540	100	Dolomite, as above.	
7540	7545	50	Dolomite, as above.	
		50	Limestone, as above.	
7545	7550	100	Limestone, tan, I-VFA.	
7550	7555	100	Limestone, light gray-tan, I-III VFA.	
7555	7560	100	Limestone, light gray, II-III VFA.	
7560	7565	100	Limestone, as above.	
7565	7570	100	Limestone, as above, with pyrite.	
7570	7575	100	Limestone, as above.	
7575	Cir. 1 Hr. Cir. 2 Hr.		Limestone, light gray-tan, II A - I VFA, very cherty, trace light green shale, occasionally well rounded, quartz grains.	

October 15, 1956

Shell Oil Company
33 Richards Street
Salt Lake City, Utah

Attention: A. L. Brown

Gentlemen:

It has come to the attention of this office that you intend drilling a well in the SE SW SW of Section 14, Township 40 South, Range 26 East, SLM, San Juan County.

Under the General Rules and Regulations adopted by the Utah Oil and Gas Conservation Commission any individual or corporation intending to drill for oil and/or gas in the State of Utah must file a notice of intention to drill with this office and have said notice approved by the Commission before commencement of drilling operations except for those cases which fall under Rule A-3 of these rules and regulations.

It would appear that this well does not fall within the exception provided for under Rule A-3.

Therefore, prior to commencement of drilling operations on this well, you are requested to file a notice of intention to drill with this office and have the same approved.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:cn

SHELL OIL COMPANY
DESERET NEWS BUILDING
33 RICHARDS STREET
SALT LAKE CITY 1, UTAH

DAvis 2-0471
TELEPHONE ~~22-0471~~

October 16, 1956

The State of Utah
Oil and Gas Conservation Commission
Room 140 State Capitol
Salt Lake City, Utah

Attention Mr. Cleon B. Feight

Gentlemen:

In reply to your letter dated October 15, 1956 concerning our Cahone Mesa 1, located SE SW SW Section 14, T. 40 S., R. 26 E., S.L.M., San Juan County, Utah, we attach a carbon copy with location plat of our U.S.G.S. Notice of Intention to Drill.

The attached copy which was prepared for your approval was inadvertently sent to the U.S.G.S. District Office in Farmington, New Mexico, along with the original U.S.G.S. notice. This matter did not come to our attention until we received your letter and noted that the U.S.G.S. had returned the copy of the notice intended for your office.

We respectfully request your approval of the attached Notice of Intention to Drill for our Cahone Mesa 1 well.

Very truly yours,

R. E. Eddy

R. E. Eddy
Senior Exploitation Engineer

Attachment

October 16, 1956

Shell Oil Company
33 Richards Street
Salt Lake City, Utah

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Cahone Mesa 1, which is to be located 500 feet from the south line and 800 feet from the west line of Section 14, Township 40 South, Range 25 East, SLBM, San Juan County.

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

Yours very truly,

OIL & GAS CONSERVATION
COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:on

cc: Phil McGrath
USGS, Farmington,
New Mexico

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.2.
Approval expires 12-31-55.

	14		
K			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock, Arizona

Allottee Tribal Lands - Navajo

Lease No. I-149-IND-9122

11/26/56

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

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

November 21, 1956

Cahone Mesa
Well No. 1 is located 500 ft. from {N/S} line and 800 ft. from {E/W} line of sec. 14

SW SW 14 | 40S | 25E | S.L.B.M.
(¼ Sec. and Sec. No.) | (Twp.) | (Range) | (Meridian)

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

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 5096 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

11-12-56 DST #1 5788-5813 (Straddle Test) (Upper Hermosa/Penn) Initial shut in 15 min. Open 1 hr 30 min, moderate blow throughout test. Shut in 45 min. Recovered 3189' (43.2 bbl) total fluid: 90' (1.3 bbl) watery gas cut mud, and 3099' (41.9 bbl) slightly muddy gas cut salt water (very slight trace of oil). Maximum salinity 100,000 ppm (r), mud before test 12,000 ppm (r). IFP 255, FFP 1285, ISIP failed, FSIP 2065 (still rising), HP 3080. (Lower packer leaked throughout test)

DST #2 5795-5824 (Straddle Test) (Upper Hermosa/Penn) Initial shut in 20 min, open 1 hr 30 min, moderate blow throughout test. Shut in 45 min. Recovered 2834' (38.2 bbl) total fluid: 85' (1.2 bbl) water and gas cut mud, and 2749' (37.0 bbl) slightly muddy, gas cut, slightly sulphurous salt water. Maximum salinity 101,000 ppm (r). Mud before test 12,000 ppm (r). ISIP failed, IFP 265, FFP 1175, FSIP 1960 (still rising), HP 3020. (Lower packer leaked in initial shut in, 5 min after dropped bar, packer stopped leaking and held throughout test.)

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

Company Shell Oil Company

Address 33 Richards Street

Salt Lake City, Utah

By B W Shepard
B. W. Shepard

Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. I-149-IND-9122

Noted
CA-K
11/26/56

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	X	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)

November 23, 1956

Well No. Cahone Mesa 1 is located 500 ft. from {S} line and 800 ft. from {W} line of sec. 14

SW SW 14 — (¼ Sec. and Sec. No.)
40S — (Twp.)
25E — (Range)
S.L.B.M. — (Meridian)

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

The elevation of the Kelly Bushing above sea level is 5096 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)

CHANGE OF PLANS

To drill to a total depth of 7600' rather than 6000'.

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 33 Richards Street

Salt Lake City, Utah

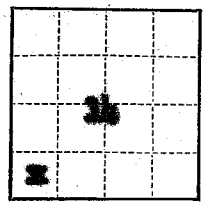
By B W Shepard
B. W. Shepard
Exploitation Engineer

Title

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. I-149-IND-9122

Noted 12/19/56

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	X		

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

December 14, 1956

Well No. Cahone Mesa 1 is located 500 ft. from {N/S} line and 800 ft. from {E/W} line of sec. 14

SW SW 14 (¼ Sec. and Sec. No.) | 40 S. (Twp.) | 25 E. (Range) | SLBM (Meridian)

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

The elevation of the Kelly Bushing above sea level is 5096 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: 7575'.
Casing: 8 5/8" at 1275'.
Hole Size: 7 7/8" from 1275' to total depth.

Proposed Work:

1. With drill pipe hung at 7400' plugged with 60 sack cement (7400-7200')
2. With drill pipe hung at 6900' plugged with 50 sack cement (6900-6750')
   With drill pipe hung at 6050' plugged with 75 sacks cement (6050-5800')
   With drill pipe hung at 2900' plugged with 75 sacks cement (2900-2650')
   With drill pipe hung at 1760' plugged with 30 sacks cement (1760-1660')
   With drill pipe hung at 1280' plugged with 50 sacks cemnt (1280-1160')
2. Run in and locate top plug.
3. Cap with a ten sack cement plug, install marker and abandon in accordance with U.S.G.S. regulations.

Verbally approved by Mr. P. T. McGrath 12-14-56.

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 33 Richards Street

Salt Lake City, Utah

By B. W. Shepard
B. W. Shepard

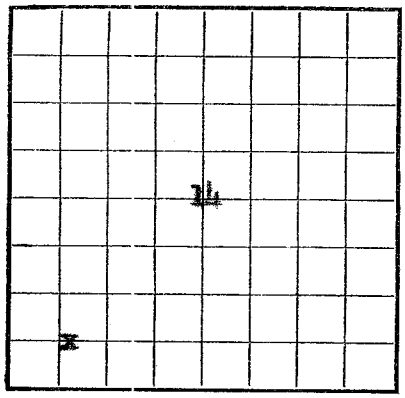
Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7

Form 9-330

reau No. 42-R355.4.
xpires 12-31-60.

U. S. Land Office Window Rock, Ariz.
Serial Number I-149-IND-9122
Lease or Permit to Prospect -



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 33 Richards St. Salt Lake City
Lessor or Tract Federal-Tribal Lands Field Wildcat State Utah
Cahone Mesa
Well No. 1 Sec. 14 T. 40S R. 25E Meridian SLBM County San Juan
Location 500 ft. {N./S.} of S Line and 800 ft. {E./W.} of E Line of Sec. 14 Elevation 5096 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 D W Shepard

Date December 17, 1956 Title Exploitation Engineer

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

Commenced drilling October 3, 1956 Finished drilling December 10, 1956

OIL OR GAS SANDS OR ZONES

(Denote gas by G) NONE

No. 1, from ____ to ____ No. 4, from ____ to ____
No. 2, from ____ to ____ No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

NONE NOTED

No. 1, from ____ 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 From—	Perforated To—	Purpose
8 5/8"	32	8rd	-	1275	Baker	-	-	-	Surface

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	1275	400	Displacement	-	-

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length ____ Depth set See attached
Adapters—Material ____ Size ____

SHOOTING RECORD

FOLD | MARK

8 5/8"	1275	490	Displacement	-	-

FOLD | MARK

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length ____ Depth set See attached

Adapters—Material ____ Size ____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
			None			

TOOLS USED

Rotary tools were used from 0 feet to 7515 feet, and from - feet to - feet

Cable tools were used from - feet to - feet, and from - feet to - feet

DATES

Abandoned as a "dry hole" December 16, 1956

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

O. B. Swisher, Driller T. T. Blazebrook, Driller

G. W. Williams, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1710	2637	927	Chinle
2637	2777	140	Shinarump
2777	2850	73	Moenkopi
2850	4755	1905	Cutler Group
4755	5850	1095	Upper Hermosa
5850	6020	170	Paradox Member
6020	7026	1006	Salt
7026	7125	99	Lower Hermosa
7125	7230	105	Molas
7230	7333	103	Leadville
7333	7515	182	Mississippian Dolomite
7515	-	-	Ouray

FORM P [OVER] 16—43094-4

16—43084-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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

Attached:

Shell Drilling History including:

1. Drilling Report

2. Core Record

3. Ditch Sample Description

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

	14		
X			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock
Arizona
Allottee Tribal Lands - Navajo
Lease No. I-149-IND-9122

Noted Comp 12/19/56

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 17, 19 56

Cahone Mesa
Well No. 1 is located 500 ft. from {N/S} line and 800 ft. from {E/W} line of sec. 14

SW SW 14 (¼ Sec. and Sec. No.) | 40S (Twp.) | 25E (Range) | SLBM (Meridian)

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

The elevation of the ~~derrick floor~~ Kelly bushing above sea level is 5006 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)

12-5-56 DST #3 7080-7188 (Lower Hermosa/Penn) Initial shut in 2½ min, open 1 hr 30 min. Immediate faint blow, nearly dead at end of test. Shut in 58 min. Recovered 3½' (0.17%) mud. ISIP 0, IFP 0, FFP 0, FSIP 0, HP 4197.

12-10-56 DST #4 7290-7410 (Pennsylvanian) Initial shut in 20 min. Open 1 hr 30 min., immediate faint non-flammable blow increasing to weak after 1 min, increasing to moderate after 3 min, steady moderate for remainder of test. Shut in 45 min., recovered 4960' (66.1%) slightly mud cut, heavily (non-flammable) gas cut water. Minimum salinity 47,000 ppm (r). Mud before test 155,000 ppm (r). ISIP 2710, IFP 490, FFP 1040, FSIP 2370 (still rising), HP 4480.

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 33 Richards Street
Salt Lake City, Utah

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

U. S. GOVERNMENT PRINTING OFFICE 16—84376-7

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R-359.3.
Approval expires 12-31-55.

		14	
x			

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo

Allottee Tribal Lands

Lease No. I-149-IND-9122

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
DEC 28 1956
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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)

December 21, 1956

Cahone Mesa
Well No. 1 is located 500 ft. from {N/S} line and 800 ft. from {E/W} line of sec. 14

SW SW 14	40S	25E	SLBM
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)

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

The elevation of the ~~derrick floor~~ Kelly Bushing above sea level is 5096 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: 7575'
Casing: 8 5/8" at 1275'
Hole Size: 7 7/8" from 1275' to total depth

Abandonment Work:

1. With drill pipe hung at 7400' plugged with 60 sacks cement (7400-7200)
   With drill pipe hung at 6900' plugged with 50 sacks cement (6900-6750)
   With drill pipe hung at 6050' plugged with 75 sacks cement (6050-5800)
   With drill pipe hung at 2900' plugged with 75 sacks cement (2900-2650)
   With drill pipe hung at 1760' plugged with 30 sacks cement (1760-1660)
   With drill pipe hung at 1280' plugged with 50 sacks cement (1280-1160)
2. Located top plug at 1163'.
3. Capped with a ten sack cement plug, installed 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 33 Richards Street

Salt Lake City, Utah

By B W Shepard
B. W. Shepard

Title Exploitation Engineer

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-7

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 965
Farmington, New Mexico

March 10, 1957

Shell Oil Company
33 Richards Street
Salt Lake City, Utah

Re: Navajo I-149-Ind-9122

Gentlemen:

Your "Subsequent Report of Abandonment" dated December 14, 1956, covering your well No. 1 Cahone Mesa, located on subject lease in SW¼ SW¼ sec. 14, T. 40 S., R. 25 E., S.L.B.M., San Juan County, Utah is hereby approved.

Very truly yours,

(Orig. Sgd.) J. W. LONG
Jerry W. Long
Acting District Engineer

JWLong:ac