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

SHELL OIL COMPANY

WELL NO. 1

DRILLING REPORT

FOR PERIOD ENDING 11-5-56

Burnham (FIELD)

San Juan County, New Mexico (COUNTY)

14 (SECTION OR LEASE)

T. 26 N., R. 15 W. (TOWNSHIP OR RANCHO)

DAY 1956	DEPTHS FROM	DEPTHS TO	REMARKS
			Location: 560' S and 660' W of NE Corner, Section 14, T. 26 N., R. 15 W., NMPM, San Juan County, New Mexico.
			Elevations: DF 5674.2' MAT 5666.3' KB 5676.8'
10-26	0	221	Drilled 221' Spudded 2:00 AM. Ran and cemented 8-5/8", 32#, J-55 casing at 218' with 130 sacks treated cement. Good cement returns to surface. Finished 11:30 AM 10-26-56. Flanged up.
10-27	221	1290	Drilled 1069'. Pressure tested casing and BOP with 700 psi for 15 minutes, OK.
10-28 to 10-31	1290	3790	Drilled 2500. Mixed mud - gel, mantan, caustic.
11-1 to 11-2	3790	4183	Drilled 393'. Treated mud with aquagel, anhydrox, mantan, caustic, gel.
11-3	4183	4260	Drilled 27', cored 50', core #1. Treated mud with caustic, mantan and anhydrox.
11-4 to 11-5	4260	4359	Cored 99'. Core #2 and #3, treated mud with mantan, caustic and anhydrox.
			Checked BOP daily.

Mud Summary 10-28/11-5

Wt. 9.9-10.1#/gal.
Vis. 44-50

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

RECEIVED DEC 27 1956 OIL CON. COM. DIST. 3

J. R. Anklam
SIGNED

PD 4A · 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

WELL NO. 1

DRILLING REPORT
FOR PERIOD ENDING 11-16-56

Burnham (FIELD)
San Juan County, New Mexico (COUNTY)
14 (SECTION OR LEASE)
T. 26 N., R. 15 W. (TOWNSHIP OR RANCHO)

DAY 1956	DEPTHS FROM	DEPTHS TO	REMARKS
11-6 to 11-7	4359	4488	Cored 129'. Core #4 and #5. Treated mud with caustic, mantan, anhydrox, and aquagel.
11-8	4488	4518	Drilled 30'. Ran Schlumberger Electrical Survey and Microlog. Treated mud with caustic, mantan and anhydrox.
11-9 to 11-10	4518	4953	Drilled 435'. Treated mud with caustic, anhydrox and mantan.
11-11 to 11-12	4953	5214	Drilled 261'. Lost cones and bearings from bit #16. Ran junk sub and recovered 5 pieces of metal. Ran junk basket, recovered 2 small pieces of metal.
11-13	5214	5357	Drilled 143'. Treated mud with aquagel, caustic anhydrox and mantan.
11-14 to 11-15	5357	5388	Drilled 25'. (Corrected depth from 5382 to 5388). Ran Schlumberger Electrical Survey and Microlog.
11-16			With open end drill pipe plugged as follows: 45 sacks construction cement (5150/5000) 45 sacks construction cement (4450/4300) 45 sacks construction cement (3400/3250) 45 sacks construction cement (750/650) Released contractor 3:00 P.M. 11-16-56. Installed marker and officially abandoned.

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
12 1/4	0	221	8-5/8"	221
7 7/8	221	4359		

DRILL PIPE SIZES 4-1/2"

Mud Summary 11-6/11-16

Wt. 9.4-10#/gal.
Vis. 42-60 Sec.
WL 7.4-9.0 cc
FC 2/32 in.

H.B. LYNN

Drillers: A. E. Jones
J. Boggs
D. L. Brazill

J. R. Anklam
SIGNED

DITCH SAMPLES

Examined by Jim Burns 0 to 1130
_____ ___ to ____

Well 1
Field or Area Burnham

FROM	TO	%	SHOWS UNDERLINED	SAMPLES ~~XXXXXX~~ NOT LAGGED
0	220		No samples.	
220	270	100	Shale, medium gray, green, micaceous, calcareous, (slightly) carbonaceous, soft.	
270	280	100	Shale, medium gray green-dark gray, micaceous, carbonaceous, calcareous.	
280	320	100	Shale, light gray, very silty, bentonitic, slightly carbonaceous, slightly calcareous.	
320	390	100	Shale, medium gray, carbonaceous, slightly silty, moderately hard, calcareous.	
390	460	100	Shale, brown-black, carbonaceous, pyritic, calcareous.	
460	470	100	Shale, light gray, silty, bentonitic, slightly calcareous.	
470	480	100	Shale, brown-black, carbonaceous, slightly calcareous, soft.	
480	550	100	Shale, light gray, bentonitic, slightly calcareous, silty.	
550	600	100	Siltstone, green gray, hard.	
600	630	100	Siltstone, medium gray, calcareous, hard.	
630	660	100	Shale, brown, hard, calcareous.	
660	710	100	Coal, low grade.	
710	760	100	Sandstone, gray green, very fine, hard, fairly well sorted, with occasional carbonaceous bands, calcareous.	
760	810	100	Sandstone, pale green, fine-medium, glauconitic, fairly well sorted, slightly calcareous, slight porosity.	
810	840	100	Shale, brown, soft.	
840	850	100	Sandstone, gray, fine, carbonaceous, calcareous, pyritic, finely disseminated.	
850	900	100	Shale, medium gray.	
900	920	100	Shale, as above, with streaks of Shale, brown-tan.	
920	1100	100	Shale, dark brown, carbonaceous, silty-very silty.	
1100	1130	75	Shale, as above.	
		25	Coal, as above.	

DITCH SAMPLES

Examined by Jim Burns 1130 to 1850
_____ ____ to _____

Well 1
Field or Area Burnham

FROM	TO	%	SHOWS UNDERLINED — SAMPLES NOT LAGGED
1130	1200	100	Shale, as above.
1200	1550	100	Shale, as above, with 15% coal, probably cavings in part.
1550	1560	20	Sandstone, light gray, very fine-fine, sub angular, slightly calcareous, unconsolidated.
		80	Shale, as above.
			Samples poor
1560	1700	30	Sandstone, as above.
		70	Shale, as above.
1700	1710	100	Shale, gray, green and tan, soft, carbonaceous, silty in part.
1710	1720	70	Shale, as above.
		30	Coal.
1720	1730	25	Sandstone, white, very fine-medium, sub rounded, poorly sorted, poorly cemented.
		75	Shale, as above.
1730	1740	40	Sandstone, as above.
		60	Coal.
1740	1750	30	Sandstone, as above.
		30	Coal.
		40	Shale, as above.
1750	1800	100	Coal, low grade.
1800	1810	25	Sandstone, as above, slightly argillaceous.
		75	Shale, as above.
1810	1840	100	Sandstone, as above.
1840	1850	40	Sandstone, as above.
		60	Shale, as above.

DITCH SAMPLES

Examined by Jim Burns 1850 to 3030

Well 1

Field or Area Burnham

FROM	TO	%	SHOWS UNDERLINED	SAMPLES XXXXXX NOT LAGGED
1850	1860	100	Shale, as above.	
1860	1880	25	Sandstone, as above.	
		75	Shale, as above.	
1880	1890	40	Coal.	
		60	Shale, as above.	
1890	1920	100	Sandstone, white-light gray, fine-very fine, sub rounded, fairly well sorted, fairly well cemented, micaceous, very slightly glauconiti slightly calcareous in part.	
1920	1950	40	Coal, dark brown.	
		60	Shale, dark brown, carbonaceous and Shale, pale green.	
1950	2000	100	Shale, as above.	
2000	2060	100	Coal.	
2060	2130	60	Sandstone, as above.	
		40	Shale, medium gray, slightly carbonaceous.	
2130	2600	20	Sandstone, as above.	
		80	Shale, as above.	
2600	2720	100	Shale, brown, carbonaceous, with minor amounts of sand, 10% or less, as above.	
2720	2730	100	Sandstone, light gray-pale green, glauconitic, calcareous, micaceous, extra fine.	
2730	2780	90	Shale, dark brown, as above.	
		10	Sandstone, as above, 10% or less.	
2780	2840	100	Sandstone, light gray, fine-medium, glauconitic, micaceous, calcareous.	
2840	2990	100	Shale, as above.	
2990	3030	100	Sandstone, as above.	

DITCH SAMPLES

Examined by Jim Burns 3030 to 4238
_____ ____ to ____

Well 1
Field or Area Burnham

FROM	TO	%	SHOWS UNDERLINED — SAMPLES NOT LAGGED
3030	3050	100	Coal.
3050	3080	100	Sandstone, as above.
3080	3160	100	Shale, as above.
3160	3180	100	Coal.
3180	3230	100	Shale, as above.
3230	3450	100	Sandstone, white-gray, fine, glauconitic, micaceous, calcareous in part, poorly cemented.
			Samples very poor
3450	3520	100	Sandstone, tan, very fine, micaceous.
3520	3780	100	Shale, gray-medium gray, silty, carbonaceous.
3780	3900	90	Shale, as above.
		10	Sandstone, tan, fine, micaceous, spotty fluorescence, calcareous.
3900	4070	75	Shale, as above.
		25	Sandstone, as above.
4070	4120	100	Sandstone, light brown, fine-medium, calcareous.
4120	4130	80	Sandstone, as above.
		20	Shale, as above.
4130	4150	20	Sandstone, as above.
		80	Shale, as above.
4150	4180	100	Shale, gray-dark gray, silty.
4180	4230	30	Shale, as above.
		70	Shale, brown, carbonaceous.
4230	4238	100	Shale, dark brown, flaky, strongly carbonaceous.

PD 4-B 8-50

SHELL OIL COMPANY

WEEK ENDING

CORE FROM 4238 TO 4288

CORES EXAMINED BY Jim Burns

CORE RECORD

AREA OR FIELD Burnham

COMPANY Shell Oil

LEASE AND WELL NO. 1

FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
4238	4288	50'				See Description
4238	4254	16	Shale, dark gray, carbonaceous, fossiliferous with occasional inoceramus prisms on bedding planes, calcareous, well indurated with interbedded Sandstone streaks, gray, well sorted, sub angular, fine, calcareous, well cemented.			
4254	4262	8	Shale, as above. Sandstone, as above.			
4262	4265	3	Shale, as above.			
4265	4272	7	Shale, as above. Sandstone, as above, bright spotty yellow fluorescence, bright milky cut fluorescence.			
4272	4279	7	Shale, as above. Sandstone, as above; 4272-73 bright spotty yellow fluorescence, and cut fluorescence as above. 4273-75 spotty yellow fluorescence and cut fluorescence, as above.			
4279	4287	8	Shale, as above. Sandstone, as above, spotty bright yellow fluorescence and cut fluorescence, as above.			
4287	4288	1	Shale, as above. Sandstone, as above, spotty bright yellow fluorescence and cut fluorescence, as above.			
			NOTE: Porosity in Sandstone of the above core appears low and appears to have a low order of permeability.			

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 4288 TO 4336

CORES EXAMINED BY Jim Burns

AREA OR FIELD Burnham

COMPANY Shell Oil

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	4288	4336	48'				
	4288	4292	4	Shale, as above. Sandstone, as above, spotty bright yellow fluorescence and very pale milky cut fluorescence.			See Description
	4292	4296	4	Shale, as above. Sandstone, as above, occasional spotty pale fluorescence, pale milky yellow cut fluorescence.			
	4296	4314	18	Shale, as above. Sandstone, as above, 4312-14 occasional very pale spotty fluorescence, bright milky yellow cut fluorescence.			
	4314	4322	8	Shale, as above.			
	4322	4326	4	Shale, as above. Sandstone, as above, 4322-24 occasional spotty pale yellow fluorescence, bright milky yellow cut fluorescence.			
	4326	4331	5	Shale, as above. Sandstone, as above, 4326' - 2" streaked brown uniform yellow fluorescence, very pale milky cut fluorescence when crushed.			
	4331	4332	1	Shale, as above.			
	4332	4336	4	Shale, as above. Sandstone, as above, occasional spotty yellow fluorescence, bright milky yellow cut fluorescence.			

NOTE: Sandstone in above core visually appears to have a low order of porosity and permeability.

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 4336 TO 4388

CORES EXAMINED BY Jim Burns

AREA OR FIELD Burnham

COMPANY Shell Oil

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	4336	4388	52'	Note: 2' of Core #2 stuck in barrel.			See Description
	4336	4337	1	Sandstone, as in Core #2, spotty-uniform pale yellow fluorescence, bright milky cut fluorescence, faint petroleum odor.			
				Shale, as above.			
	4337	4338	1	Shale, as above, with only minor Sandstone as above, lenses (10% sandstone) fluorescence, cut fluorescence and odor as above.			
	4338	4341	3	Sandstone, as above, but not as well indurated. 4338-39 fluorescence, cut fluorescence and odor as above, 4339-40 uniform bright yellow fluorescence, pale yellow cut fluorescence and faint petroleum odor. 4340-41 spotty-uniform bright yellow fluorescence, bright milky yellow cut fluorescence, light brown cut and faint petroleum odor.			
	4341	4348	7	Shale, as above.			
				Sandstone, as above, 4341-42 spotty-uniform bright yellow fluorescence, milky yellow cut fluorescence, light brown cut, faint petroleum odor, occasional streaks of bleeding oil. 4342-43 fluorescence, cut fluorescence as in 4341-42, with good petroleum odor. 4343-44 spotty-uniform bright yellow fluorescence, bright milky yellow cut fluorescence, faint petroleum odor. 4344-45 uniform yellow fluorescence, bright milky cut fluorescence, faint petroleum odor. 4345-46 spotty bright yellow fluorescence, bright milky cut fluorescence, faint petroleum odor. 4346-47 uniform bright yellow fluorescence, bright milky yellow cut fluorescence, faint petroleum odor. 4347-48 spotty bright yellow fluorescence, very pale milky yellow cut fluorescence, light brown cut, good petroleum odor, good oil stain.			
	4348	4371	23	Sandstone, gray, fine-coarse, calcareous in part, glauconitic, sub angular, poorly sorted, fairly well cemented.			
				4348-49, spotty bright yellow fluorescence, very pale milky yellow cut fluorescence, faint petroleum odor.			
				4350-51 spotty-uniform bright yellow fluorescence, bright milky yellow cut fluorescence, light brown cut, good petroleum odor, good uniform oil staining.			

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 4336 TO 4388

CORES EXAMINED BY Jim Burns

CORE RECORD

AREA OR FIELD Burnham

COMPANY Shell Oil

LEASE AND WELL NO. 1

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBS. (UNCD) DIP	CORE INDICATIONS OIL—GAS / CORE OR DITCH
3	Cont.						
	4348	4371		4351-4352 spotty yellow-bright milky yellow fluorescence, bright milky cut fluorescence, good petroleum odor, occasional streaks with good oil staining. 4352-4353 trace brown milky yellow fluorescence, pale yellow cut fluorescence, good petroleum odor, occasional streaks with good oil staining. 4353-4354 spotty bright milky yellow cut fluorescence, good petroleum odor, occasional streaks good oil staining. 4354-4355 spotty-uniform bright milky yellow fluorescence, bright milky cut fluorescence, good petroleum odor, occasional streaks with good oil staining. 4355-4356 spotty bright milky yellow fluorescence, pale yellow cut fluorescence, good petroleum odor, occasional streaks with good oil staining. 4356-4357 trace bright milky yellow fluorescence, pale yellow cut fluorescence, faint petroleum odor, occasional streaks with good oil staining. 4357-4358 spotty bright yellow fluorescence, bright milky yellow cut fluorescence, very light brown cut, faint odor, occasional streaks with good oil staining. 4358-4359 spotty bright yellow fluorescence, bright milky cut fluorescence, very light brown cut, occasional streaks with good oil staining. 4359-4360 spotty bright yellow fluorescence, pale yellow cut fluorescence, faint odor, occasional streaks with good oil stain. 4360-4361 spotty bright yellow fluorescence, bright milky yellow cut fluorescence , very light brown cut, good petroleum odor, occasional streaks good oil stain. 4362-4366 occasional streaks of dead oil stain. 4366-4367 trace bright milky yellow fluorescence, bright milky yellow cut fluorescence, faint odor, occasional streaks dead oil stain. 4368-4370 occasional streaks dead oil stain. 4370-4371 uniform bright yellow fluorescence, very pale yellow cut fluorescence, occasional streaks dead oil stain.			

SYMPOLS: 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 RECORD

AREA OR FIELD Burnham

CORE FROM 4336 TO 4388

COMPANY Shell Oil

CORES EXAMINED BY Jim Burns

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	Cont.						
				4371-4372 trace milky yellow fluorescence, very pale milky yellow fluorescence, very pale milky cut fluorescence, occasional streaks dead oil stain.			See Description
	4371	4372.5	1.5	Sandstone, as in 4338-4341.			
	4372.5	4380.	7.5	Sandstone, as in 4348-4371.			
	4380	4388	8	Siltstone, dark brown, sandy, micaceous, glauconitic, well indurated with minor Sandstone streaks as above, 10% calcareous. 4380-4388 uniform to very pale yellow fluorescence, bright milky yellow cut fluorescence.			
				NOTE: Sands in above core seem visually to have a low porosity.			

SYMPOLS: 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 4388 TO 4438

CORES EXAMINED BY

CORE RECORD

AREA OR FIELD Burnham

COMPANY Shell Oil

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
4	4388	4438	50'				See Description
	4388	4389	1	Siltstone, dark brown, micaceous, carbonaceous, slightly calcareous, pyritic, well indurated.			
	4389	4419	30	Sandstone, fine-medium gray, calcareous, micaceous, galuconitic, fairly well cemented, sub angular, carbonaceous, porosity appears to be of low order. 4394-4395 trace milky yellow fluorescence, milky yellow cut fluorescence.			
	4419	4420	1	Siltstone, as above. Sandstone, as above.			
	4420	4435	15	Sandstone, as above, with occasional very thin interbeds of dark brown siltstone, as above.			
	4435	4435.5	.5	Siltstone, as above.			
	4435.5	4438	2.5	Sandstone, as in interval 4420-4435.			

NOTE: Apparent dip from cores 0° ±.

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 4438 TO 4488

CORES EXAMINED BY Jim Burns

AREA OR FIELD Burnham

COMPANY Shell Oil

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
5	4438	4488	50'				
	4438	4477	39	Sandstone, gray, fine-medium, sub angular, well cemented, calcareous, carbonaceous, with very fine interbeds of dark brown, silty mica, carbonaceous layers. 4469-4471 spotty pale yellow fluorescence, bright milky cut fluorescence, faint odor of petroleum. 4471-4472 occasional trace pale yellow fluorescence, pale milky cut fluorescence.			See Description
	4477	4485	8	Sandstone, dark brown, fine-medium, sub angular, well cemented, micaceous, glauconitic, calcareous.			
	4485	4488	3	Sandstone, as in interval 4438-4477.			

Note: The sandstones in this core appear visually to have very little porosity.

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.