PD 4A · 2-50 PRINTED IN U. S. A.

SHELL OIL COMPANY

Pool Four #1
WELL NO.

DRILLING REPORT
FOR PERIOD ENDING 8-29-57

Wildcat
(FIELD)

Sandoval, New Mexico
(COUNTY)

22
(SECTION OR LEASE)

T 21N, R5W
(TOWNSHIP OR RANCHO)

DAY	DEPTHS FROM	DEPTHS TO	REMARKS
57			
			Location: 675' N and 650' W of SE Corner of Section 22, T 21 N, R 5 W, NMPM, Sandoval County, New Mexico
			Elevations: DF 7240.3 Grd 7232.4 KB 7242.2
8-15	0	217	Spudded 4:00 AM
8-16	217		Ran and cemented 8 5/8", 28#, J-55 casing at 215' with ~~150~~ sacks treated construction cement. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 800 psi, OK
8-17 to 8-21	217	3801	Drilled 3584'
8-22	3801	4020	Drilled 219' DST# 1 3686-3801 Johnston testers, 2 65/8" bobtail packers at 3680' and 3686', 1 inside pressure recorder at 3671', 2 outside pressure recorders at 3801', 3/4" subsurface bean and 1" surface bean. Perforations 3686-3728. Used 30' (0.2 bbls) air cushion. Initial shut in 30 minutes, open 1 hr, 30 min. Final shut in 45 minutes. Steady weak blow throughout test. Recovered 1105' (10.3 bbls) total fluid including: 172' (.8 bbls) slightly oil cut mud, 860' (8.5 bbls) slightly oil cut watery mud and 73' (1.0 bbls) salt water. ISIP failed, IFP 95, FFP 475, FSIP 1164 (nearly stab), HP 1862.
8-23 to 8-28	4020	4811	Drilled 791'. Lost circulation at 4591', recovered with lost circulation material.
8-29	4811	5095	Drilled 284' DST#2 4740-4811 (Gallup) Johnston testers, 2 65/8" bobtail packers at 4733 and 4740. 1 inside pressure recorder at 4725 (T), 2 outside pressure recorders (Amerada and T) at 4811', 3/4" subsurface bean and 1" surface bean. Perforations 4740-62 and 4791-98. Used 60' (.414 bbls) air cushion. Initial shut in 30 minutes, open 1 hour, final shut in 30 minutes. Faint blow decreasing to dead in 45 minutes. Recovered 120' (0.59 bbls) total fluid including: 30' (.15 bbls) slightly oil cut mud and 90' (.45 bbls) mud. ISIP failed, IFP 111, FFP 148 FSIP 175, HP 2392 Ran Electrical-Induction and Microlog.

RECEIVED
OCT 28 1957
OIL CON. COM.
DIST. 3

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET

DRILL PIPE SIZES

A. V. Humphries

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

SHELL OIL COMPANY

DRILLING REPORT
FOR PERIOD ENDING

9-1-57

Pool Fou[illegible]
WELL NO. 22
(SECTION OR LEASE) T21N, R5W
(TOWNSHIP OR RANCHO)

Wildcat
(FIELD)
Sandoval, New Mexic
(COUNTY)

DAY	DEPTH FROM
57	
8-30 to 8-[illegible]	[illegible]

REMARKS

Took 26 sidewall samples recovered 11. Waited on orders.

With open end drill pipe plugged as follows:
50 sacks at 4800'
50 sacks at 3900'
50 sacks at 1560'
50 sacks at 250'
Located top of cement at 83'. Cemented at surface with 10 sack cement cap, installed marker. Released rig 3:00 PM, 9-1-57, abandoned.

Checked BOP Daily

Mud Summary
Wt 9.4 to 9.8 #/gal
Vis 40 to 84 sec
WL 6 to 8.7 cc
FC 2/32 in
pH 8-10

CONDITION AT BEGINNING OF PERIOD

HOLE SIZE	HOLE FROM	HOLE TO	CASING SIZE	DEPTH SET
12 1/4"	0	215	8 5/8"	215
7 7/8"	215	5095		

DRILL PIPE SIZES 4 1/2"

Contractor: Foree Drilling Company
Drillers: J. S. Wortman
C. McKenney
C. H. Isgar

A. V. Humphyries

100 Shale, as above

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NoT
1090	1110	10	Shale, as above.	
		90	Sandstone, as above.	
1110	1130	70	Shale, as above.	
		30	Sandstone, as above.	
1130	1140	80	Shale.	
		20	Sandstone.	
1140	1170	90	Shale.	
		10	Sandstone.	
1170	1180	20	Shale.	
		80	Sandstone, fine-medium.	
1180	1190	70	Shale.	
		30	Sandstone.	
1190	1210	100	Shale, as above.	
1210	1220	90	Shale.	
		10	Sandstone.	
1220	1250	60	Shale.	
		40	Sandstone.	
1250	1260	40	Shale, medium green-medium brown.	
		60	Sandstone, fine-medium, some free quartz granuls or crystals, some pyrite.	
1260	1270	50	Shale, as above.	
		50	Sandstone, as above.	
1270	1290	100	Shale, inter bedded medium green and medium brown.	
1290	1300	90	Shale, as above.	
		10	Coal.	
1300	1320	100	Shale, dark brown, small dark green, carbonaceous, silty.	
1320	1330	80	Shale, as above.	

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Pool #1
Field or Area Divide

SAMPLES LAGGED NoT

FROM	TO	%	SHOWS UNDERLINED
1090	1110	10	Shale, as above.
		90	Sandstone, as above.
1110	1130	70	Shale, as above.
		30	Sandstone, as above.
1130	1140	80	Shale.
		20	Sandstone.
1140	1170	90	Shale.
		10	Sandstone.
1170	1180	20	Shale.
		80	Sandstone, fine-medium.
1180	1190	70	Shale.
		30	Sandstone.
1190	1210	100	Shale, as above.
1210	1220	90	Shale.
		10	Sandstone.
1220	1250	60	Shale.
		40	Sandstone.
1250	1260	40	Shale, medium green-medium brown.
		60	Sandstone, fine-medium, some free quartz granuls or crystals, some pyrite.
1260	1270	50	Shale, as above.
		50	Sandstone, as above.
1270	1290	100	Shale, inter bedded medium green and medium brown.
1290	1300	90	Shale, as above.
		10	Coal.
1300	1320	100	Shale, dark brown, small dark green, carbonaceous, silty.
1320	1330	80	Shale, as above.

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED — SAMPLES LAGGED NOT
1330	1340	100	Shale, medium gray-brown, silty.
1340	1350	60	Shale, as above.
		40	Sandstone, fine-medium, slightly micaceous.
1350	1360	80	Shale, as above.
		20	Sandstone, as above.
1360	1370	100	Shale, medium brown-dark brown, carbonaceous.
1370	1400	100	Shale, as above, slightly carbonaceous.
1400	1410	70	Shale, as above.
		30	Sandstone, white, fine-medium, [redacted] angular.
1410	1450	100	Shale, medium green, gray-medium brown, slightly silty.
1450	1460	100	Sandstone, white-light gray, very fine-fine, slightly micaceous?
1460	1470	50	Shale, medium brown, carbonaceous flecks, silty in part.
		50	Sandstone, as above.
1470	1480	100	Sandstone, medium gray, very fine-medium.
1480	1500	100	Coal.
1500	1510	100	Sandstone, white-clear, sub angular, fine-medium, particles consolidated in part.
1510	1520	50	Shale, medium gray-brown, slightly silty.
		50	Sandstone, as above.
1520	1530	100	Sandstone, as above.
1530	1540	50	Shale, as above.
		50	Sandstone, as above.
1540	1550	100	Sandstone, as above.
1550	1580	60	Shale, as above.
		40	Sandstone, as above.
1580	1590	50	Shale, as above.
		50	Sandstone, as above.

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
1900	1930	90	Shale, as above, very silty.	
		10	Sandstone, as above.	
1930	1940	100	Shale, as above.	
1940	1970	100	Shale, as above, becomes less silty.	
1970	1990	70	Shale, brown and gray.	
		30	Sandstone, very fine, tightly cemented with carbonaceous particles.	
1980	1990	90	Shale, as above.	
		10	Sandstone, as above.	
1990	2000	80	Shale, as above.	
		20	Sandstone, as above.	
2000	2010	100	Sandstone, as above.	
2010	2020	100	Shale, as above.	
2020	2040	90	Shale, as above.	
		10	Sandstone, as above.	
2040	2050	100	Shale, as above.	
2050	2060	100	Shale, becomes less silty and vari-colored.	
2060	2080	100	Shale, as above.	
2080	2090	90	Shale, as above.	
		10	Sandstone, as above.	
2090	2120	100	Shale, as above.	
2120	2140	100	Shale, as above, with trace Sandstone.	
2140	2200	100	Shale, gray, green brown.	
2200	2210	100	Shale, as above, with Silstone.	
2210	2350	100	Shale, as above.	
2350	2400	100	Shale, medium gray-brown.	
2400	2450	100	Shale, as above.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

SAMPLES LAGGED NOT

FROM	TO	%	SHOWS UNDERLINED
1590	1600	40	Shale, as above.
		60	Sandstone, as above.
1600	1620	60	Shale, as above.
		40	Sandstone, as above.
1620	1630	20	Shale, as above.
		80	Sandstone, as above, very fine-fine, sub angular, poorly sorted, [redacted]alcareous.
1630	1640	10	Shale, as above.
		90	Sandstone, as above.
1640	1650	30	Shale, as above.
		70	Sandstone, as above.
1650	1660	60	Shale, as above.
		40	Sandstone, as above.
1660	1690	10	Shale, as above.
		90	Sandstone, as above.
1690	1700	20	Shale, as above.
		80	Sandstone, as above.
1700	1710	90	Shale, dark gray, very silty.
		10	Sandstone, as above.
1710	1800	100	Shale, as above.
1800	1840	100	Shale, gray-brown, slightly silty.
1840	1880	100	Shale, becomes more silty with carbonaceous particles.
1880	1890	90	Shale, as above.
		10	Sandstone, gray, very fine.
1890	1900	50	Shale, as above.
		50	Sandstone, as above.

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NoT
2450	2490	90	Shale, as above.	
		10	Sandstone, fine-medium, very slightly calcareous, occasionally pyritic.	
2490	2500		Skip.	
2500	2520	100	Shale, medium green-gray-medium green, slightly silty in part, very slightly calcareous.	
2520	2570	100	Shale, medium gray-brown.	
2570	2580	90	Shale, as above.	
		10	Sandstone, fine-medium, clear-milky granuls, sub angular, very slightly calcareous.	
2580	2600	80	Shale, as above.	
		20	Sandstone, as above.	
2600	2610	75	Shale, as above.	
		25	Sandstone, with trace pyrite.	
2610	2650	70	Shale, as above.	
		30	Sandstone, as above.	
2650	2700	90	Shale, as above.	
		10	Sandstone, as above.	
2700	2720	80	Shale, medium gray-brown, silty in part.	
		20	Sandstone, with milky, fine-medium, sub angular, pyrite.	
2720	2790	100	Shale, as above.	
2790	2800	80	Shale, as above.	
		20	Silstone, medium gray-medium brown, slightly micaceous.	
2800	2820	70	Shale, as above.	
		30	Silstone, as above.	
2820	2850	50	Shale, as above.	
		50	Silstone, as above.	
2850	2900	100	Shale, as above, slightly sandy.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

SAMPLES LAGGED NoT

FROM	TO	%	SHOWS UNDERLINED
2450	2490	90	Shale, as above.
		10	Sandstone, fine-medium, very slightly calcareous, occasionally pyritic.
2490	2500		Skip.
2500	2520	100	Shale, medium green-gray-medium green, slightly silty in part, very slightly calcareous.
2520	2570	100	Shale, medium gray-brown.
2570	2580	90	Shale, as above.
		10	Sandstone, fine-medium, clear-milky granuls, sub angular, [illegible], very slightly calcareous.
2580	2600	80	Shale, as above.
		20	Sandstone, as above.
2600	2610	75	Shale, as above.
		25	Sandstone, with trace pyrite.
2610	2650	70	Shale, as above.
		30	Sandstone, as above.
2650	2700	90	Shale, as above.
		10	Sandstone, as above.
2700	2720	80	Shale, medium gray-brown, silty in part.
		20	Sandstone, with milky, fine-medium, sub angular, pyrite.
2720	2790	100	Shale, as above.
2790	2800	80	Shale, as above.
		20	Silstone, medium gray-medium brown, slightly micaceous.
2800	2820	70	Shale, as above.
		30	Silstone, as above.
2820	2850	50	Shale, as above.
		50	Silstone, as above.
2850	2900	100	Shale, as above, slightly sandy.

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
2900	2910	100	Shale, as above, with slight inclusions in trace of Sandstone.	
2910	2920	90	Shale, as above.	
		10	Sandstone, very fine, white.	
2920	2930	90	Shale, as above.	
		10	Sandstone, as above.	
2930	2940	100	Shale, as above, trace Sandstone as above.	
2940	2950	100	Shale, Gray, brown and green.	
2950	2960	100	Shale, as above.	
2960	2970	100	Shale, as above.	
2970	2980	100	Shale, as above.	
2980	2990	100	Shale, as above.	
2990	3000	100	Shale, as above.	
3000	3010	100	Shale, as above.	
3010	3020	100	Shale, as above.	
3020	3030	100	Shale, as above.	
3030	3040	100	Shale, as above.	
3040	3050	90	Shale, as above.	
		10	Sandstone, very fine, gray green.	
3050	3060	90	Shale, as above.	
		10	Sandstone, as above.	
3060	3070	100	Shale, as above.	
3070	3080	100	Shale, as above.	
3080	3090	100	Shale, as above.	
3090	3100	90	Shale, light gray to brown, slightly silty.	
		10	Coal.	

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED Not
3100	3110	100	Shale, as above.	
3110	3120	90	Shale, as above.	
		10	Sandstone, very fine, sub angular.	
3120	3130	80	Shale, as above.	
		20	Sandstone, as above.	
3130	3140	80	Shale, as above.	
		20	Sandstone, as above.	
3140	3150	100	Shale, as above.	
3150	3160	90	Shale, as above.	
		10	Sandstone, fine to medium, sub angular, white.	
3160	3170	90	Shale, as above.	
		10	Sandstone, white mineral.	
3170	3180	90	Shale, as above.	
		10	Sandstone, as above.	
3180	3190	100	Shale, as above.	
3190	3200	100	Shale, medium gray, slightly calcareous, slightly silty.	
3200	3210	90	Shale, as above.	
		10	Coal.	
3210	3220	80	Shale, as above.	
		20	Coal.	
3220	3230	50	Shale, as above.	
		50	Coal.	
3230	3240	90	Shale, as above.	
		10	Coal.	
3240	3250	100	Shale, as above.	

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
3250	3260	40	Shale, medium gray to light brown.	
		40	Sandstone, white, fine-medium grain, sub angular.	
		20	Coal.	
3260	3270	50	Shale, as above.	
		50	Sandstone, as above.	
3270	3280	20	Shale, as above.	
		80	Siltstone, medium brown to gray brown, slightly calcareous.	
3280	3290	100	As above.	
3290	3300	50	Shale, as above.	
		50	Siltstone, as above.	
3300	3310	80	Siltstone, medium gray to medium brown.	
		20	Sandstone, white, very fine-fine grain, fair to poor consolidation.	
3310	3320	100	As above.	
3320	3340	100	Shale, white, very fine-fine, sub round, fair to poor consolidation.	
3340	3350	100	Shale, medium gray to light brown.	
3350	3360	50	Siltstone, medium brown, sandy.	
		50	Sandstone, white to light green, very fine to fine, silty in part.	
3360	3380	100	Sandstone, as above, occasionally [illegible]ic.	
3380	3400	50	Shale, medium gray to medium brown, very fine, sandy in part.	
		50	Sandstone, as above, occasionally pyritic.	
3400	3450	25	Shale, as above, silty in part.	
		75	Sandstone, white, very fine to fine, poor to fair consolidation.	
3450	3480	25	Siltstone, light gray to medium brown, trace fluorescence. No Color, Cut Fluorescence.	
		75	Sandstone, as above.	
3480	3500	100	Shale, medium gray to light gray brown.	

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
3500	3530	100	Shale, as above, silty in part.	
3530	3560	90	Shale, as above.	
		10	Coal.	
3560	3570	80	Shale, as above.	
		20	Coal.	
3570	3580	20	Shale, as above.	
		10	Coal.	
		70	Sandstone, white, very fine to fine, sub round, poor to fair consolidation.	
3580	3600	40	Shale.	
		20	Coal.	
		40	Sandstone.	
3600	3610	20	Shale, light brown to medium gray, silty.	
		50	Sandstone, white, very fine to fine, sub round to sub angular.	
		30	Coal.	
3610	3620	100	Shale, medium gray-brown.	
3620	3630	90	Shale, as above.	
		10	Coal.	
3630	3640	75	Shale, as above.	
		25	Coal.	
3640	3650	80	Shale, white, poor consolidation.	
		20	Coal.	
3650	3660	50	Shale, light gray-brown, silty.	
		50	Coal.	
3660	3670	80	Shale, as above.	
		20	Coal.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED Not
3670	3700	50	Shale, as above.	
		50	Sandstone, as above.	
3700	3710	50	Shale, medium gray to medium brown, silty, fluorescence 30%. Good milky cut fluorescence, colorless cut.	
		50	Sandstone, as above.	
3710	3720	20	Shale, as above.	
		40	Sandstone, as above.	Show as above.
		40	Coal.	
3720	3730	60	Shale, as above.	Show as above.
		20	Sandstone, as above.	
		20	Coal.	
3730	3750	100	Sandstone, white, sub round to sub angular. Very fine to fine, slight micaceous, occasionally pyritic, 30-40% Fluorescence.	
3750	3770	100	Sandstone, as above	Cut Fluorescence.
3770	3790	50	Shale, as above.	
		50	Sandstone, as above.	Cut as above.
3790	3800	70	Shale, silty.	
		30	Sandstone, as above.	Cut as above.
3800	3810		Skip.	
3810	3820	50	Shale, light to medium gray, silty in part.	
		50	Sandstone, white, very fine to fine, sub angular.	
3820	3830	30	Shale, as above.	
		70	Sandstone, as above, with some micaceous.	
3830	3840	50	Shale, as above.	
		50	Sandstone, as above.	

DITCH SAMPLES

Examined by _____ ____to ____
_____ ____to ____

Well Pool #1
Field or Area Divide

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT
4170	4180	70	Shale, as above	
		30	Sandstone, as above.	
4180	4200	70	Shale, as above.	
		30	Sandstone, as above.	
4200	4230	50	Shale, medium gray, silty.	
		50	Sandstone, white to light gray, very fine to fine.	
4230	4250	70	Shale, as above.	
		30	Sandstone, as above.	
4250	4300	50	Shale, as above.	
		50	Sandstone, as above, some gray, very fine.	
4300	4330	20	Shale, as above.	
		80	Sandstone, as above.	
4330	4350	30	Shale, as above.	
		70	Sandstone, as above.	
4350	4380	30	Shale, as above.	
		70	Sandstone, as above.	
4380	4400	60	Shale, as above.	
		40	Sandstone, as above.	
4400	4440	100	Shale, medium.	
4440	4450	70	Shale, as above.	
		30	Coal.	

DITCH SAMPLES

Examined by _____ ____to _____
_____ ____to _____

Well Pool #1
Field or Area Wildcat

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED Not
4450	4500	80	Shale	
		20	Sandstone	
4500	4550		Skip	
4550	4600	100	Shale	
4600	4650	90	Shale	
		10	Sandstone	
4650	4730	100	Shale	
4730	4750	90	Shale	
		10	Sandstone , fine-medium, sub angular	
4750	5030		Shale and sandstone interbedded with 10% fluorescence 4750-4810	
5030	5050	90	Shale	
		10	Sandstone	
5030	5095 TD	100	Shale	