

Bisti- Carson Unit 2

DRILLING REPORT

FOR PERIOD ENDING

August 17, 1956

(FIELD)

San Juan County, New Mexico

(COUNTY)

25

(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
56			
			Location: 660' S., and ³²⁶ 600' E., of NW corner, Section 25, T. 25 N., R. 12 W., N.M.P.M., San Juan County, New Mexico.
			Elevations: DF 6428.98' Mat 6419.35' KB 6430.38'
8-7			Spudded 11:00 P.M., August 7, 1956.
8-8	0	255	Drilled 255'. Ran and cemented 6 jts., 8 5/8", 32#, J-55 casing at 226' with 100 sacks treated construction cement. Flanged up and waited on cement. Pressure tested casing and blowout equipment with 750 psi for 15 minutes, OK.
8-9 to 8-10	255	2676	Drilled 2421'. Displaced drilling fluid (water) with mud. Treated mud with Quebracho, soda ash and gel.
8-11 50 8-17	2676	5000 T.D.	Drilled 2324'. Treated mud with Quebracho, soda ash and gel.
			Checked Blowout Equipment Daily.
			Mud Summary 8-10/8-17
			Wt. 9.9-9.2#/gal Vis. 42-46 sec. W.L. 8-10.2 cc F.C. 2-3/32 in.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE 4-1/2 SIZES				



R. D. Allen

SIGNED

SHELL OIL COMPANY

WELL NO. 2Bisti-Carson Unit 2

DRILLING REPORT

FOR PERIOD ENDING

August 21, 195625

(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

San Juan County, New Mexico

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
56			
8-18	5000	T.D.	Circulated and ran electrical survey and microlog.
8-19			Ran and cemented (Halliburton) 123 jts., 5-1/2", 14#, J-55 casing at 4969' with 200 sacks construction cement. Finished 12:50 A.M. 8-19-56. Bumped plug with 1500 psi. Flanged up. Found top of plug at 4923'. Displaced mud with oil.
8-20			Ran Gamma-Ray Log with collar locator. Perforated 4 holes/ft. interval 4790-4795, 4818-4822, 4828-4833, 4843-4852, 4866-4874 and 4881-4887.
8-21			<u>Fracture Treatment #1 (gross interval 4790-4887).</u> Injected 100 bbls. crude oil, break down pressure 2900 psi followed with 15,000 gals. oil with 1# sand/gal. followed by 15,000 gal. oil with 2# sand/gal. Average injection rate 44-46 bbl/min. at 1800 psi. Overflushed with 125 bbl. oil containing 20 gal. free flo.. Finished 8-12-56 A.M. SIP 1000 psi.
8-22	5000 4923	T.D. PBTD	Used a total of 1050 bbls load and fracture oil in treatment #1. Casing pressure decreased to 790 in 12 hours. Opened casing and well flowed by heads averaging 28.3 bbl/hr. Recovered 340 bbls load oil, 710 bbls load oil remaining. Installed stripper and stripped tubing into well. Set packer at 4796'. Released Rig 7:00 P.M., 8-22-56.
<p>Contractor: Claude M. Carroll</p> <p>Drillers: V. Sokolosky C. R. Dillard H. L. Miles</p>			
CONDITION AT BEGINNING OF PERIOD			
HOLE			CASING SIZE
SIZE	FROM	TO	DEPTH SET
11"	0	226	8-5/8"
7-7/8"	226	5000	226
DRILL PIPE SIZES 4-1/2			

R. D. Allen

SIGNED

SHELL OIL COMPANY

WELL NO. 2

Risti - Carson Unit 2

DRILLING REPORT

FOR PERIOD ENDING

25

(SECTION OR LEASE)

San Juan County, New Mexico

March 14, 1957

T. 25 N., R. 12 W.

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
12-31-56	TD PBT	5000 4923	Swabbed 3 hours, 30 barrels, well flowed 5 hours, 20 barrels gross (96 B/D rate), well died.
1-1-57			24 hours, flowed intermittently, 42 barrels gross, 42 barrels net, 0.5% cut, 48/64" bean, no gas measurement, TP 0-20.
1-2			6 1/2 hours, flowed and swabbed 40 barrels gross; 17 1/2 hours, flowed 53 barrels gross, 53 barrels net (72 B/D rate), cut 0.8%, 48/64" bean, no gas measurement, TP 0-20. Released pulling unit 1-3-57.
1-3			24 hours (flowing intermittently), 52 barrels gross, not cut, no gas measurement, TP 0-20, 48/64" bean.
1-4			24 hours, flowing, 39 barrels gross, 39 barrels oil, cut 1.0%, 48/64" bean, no gas measurement.
1-5			24 hours, flowing, 34 barrels gross, 34 barrels oil, cut 0.4%, 48/64" bean, no gas measurement, TP 0-20.
1-6			24 hours, flowing, 28 barrels gross, 28 barrels oil, cut 0.1%, 48/64" bean, no gas measurement, TP 0-20.
1-7			24 hours, flowing, 30 barrels gross, 30 barrels oil, cut 0.1%, no gas measurement, 48/64" bean, TP 0-20.
1-8			24 hours, flowing, 10 barrels gross, 10 barrels oil, not cut, 48/64" bean, no gas measurement, TP 0-20.
1-9			Well died.
1-10 to 1-11			Well would not flow. Shut well in 12:00 noon 1-11-57.
1-12			Opened well 3:30 P.M. 1-12-57, TP 50 psi. Well would not flow. Shut in.
2-2			Ran 2 3/8" and 1" parallel tubing string, packer at 4773'. Rigging up to swab.
2-3			Tubing shoe at 4871'. Top gas anchor beginning of parallel string 4738'.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
11"	0	226	8-5/8"	226'
7-7/8"	226	5000	5-1/2"	4969'
DRILL PIPE SIZES				
4-1/2				

E. B. Johnstone

SIGNED

SHELL OIL COMPANY

WELL NO. 2

Bisti - Carson Unit 2

DRILLING REPORT

FOR PERIOD ENDING

March 14, 1957

25

(SECTION OR LEASE)

T. 25 N., R. 12 W.

San Juan County, New Mexico

(COUNTY)

(TOWNSHIP OR RANGE)

DAY 1957	DEPTHS		REMARKS
	FROM	TO	
2-4	TD PBSD	5000 4923	Opened well 10:00 A.M. 2-4-57, swabbed 21 hours, total gross, 141 bbls., fluid level ranged from 1400' to 4800'. Swabbing rate last 3 hours 41 B/D gross, fluid level 4800'.
2-5			Swabbed 7 hours, total 22 barrels gross. Shut in.
2-16 to 2-17			Rigged up pulling unit, started to run pump and rods. Admore anchor hung up at 480'. Pulled and found anchor OK. Swaged out tight places with tubing drift on sand line. Re-ran rods and hung up at 3400'. Again pulled pump and rods.
2-18 to 2-21			Landed parallel tubing (2 3/8" and 1") at 4738'; packer at 4773'. Ran rods and pump. Shut in.
3-4-			Installed pumping unit, placed well on production 5:00 P.M. 3-4-57, 16-54" SPM, not gauged. 16 hours, pumping, 83 barrels gross (124 B/D rate). Have produced all load and frac oil (1009 barrels) plus 15 barrels new oil.
3-5			24 hours, pumping 13-54" SPM, 55 barrels gross, no cut, no gas measurement.
3-6			Pumped 24 hours, 48 barrels gross, 47 barrels oil, cut 1.5%.
3-7			Pumped 21 hours, 17 barrels gross, cut 1.7%.
3-8			Pumped 24 hours, 33 barrels gross.
3-9			Pumped 29 barrels gross.
3-10			Pumped 24 hours, 23 barrels gross.
3-11			Pumped 26 hours, 28 barrels gross.
			<u>REPRESENTATIVE INITIAL PRODUCTION</u> Pumping 21 B/D gross, 21 B/D oil, cut 1.4%, gas rate nil. Officially completed 3-6-57. Final Report.
CONDITION AT BEGINNING OF PERIOD			
HOLE		CASING SIZE	DEPTH SET
SIZE	FROM	TO	
11"	0	226	8-5/8"
7-7/8"	226	5000	5-1/2"
DRILL PIPE SIZE		4-1/2"	

E. B. Johnstone

SIGNED

DITCH SAMPLES

Examined by _____ 3330 to 3510
_____ to _____Well Carson Unit #2
Field or Area San Juan County, New Mexico

FROM	TO	%	SHOWS UNDERLINED	SAMPLES XXXXXX NOT LAGGED
3330	3340	70	<u>Shale</u> , medium gray, silty, carbonaceous.	
		30	<u>Shale</u> , brown, carbonaceous.	
3340	3350	80	<u>Shale</u> , as above.	
		20	<u>Shale</u> , brown, as above.	
3350	3370	100	<u>Shale</u> , gray and brown, carbonaceous.	
3370	3380	20	<u>Coal</u> .	
		80	<u>Shale</u> , as above.	
3380	3390	10	<u>Coal</u> .	
		90	<u>Shale</u> , as above.	
3390	3400	50	<u>Shale</u> , brown, carbonaceous.	
		50	<u>Shale</u> , gray, carbonaceous.	
3400	3440	100	<u>Shale</u> , gray and brown, carbonaceous.	
3440	3450	100	<u>Sandstone</u> , white, fine, sub rounded, poorly sorted, argillaceous.	
3450	3460	20	<u>Coal</u> .	
		80	<u>Shale</u> , gray and brown, carbonaceous.	
3460	3470	30	<u>Coal</u> .	
		70	<u>Shale</u> , brown, carbonaceous.	
3470	3480	80	<u>Sandstone</u> , white, very fine, sub rounded, poorly sorted.	
		20	<u>Coal</u> .	
3480	3490	50	<u>Coal</u> .	
		50	<u>Shale</u> , gray and brown, carbonaceous.	
3490	3500	50	<u>Shale</u> , as above.	
		50	<u>Coal</u> , as above.	
3500	3510		Skip.	

DITCH SAMPLES

Examined by _____ 3510 to 3910
_____ to _____Well Carson Unit #2
Field or Area San Juan County, New Mexico

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT LAGGED
3510	3520	20	<u>Coal.</u>	
		80	<u>Shale</u> , medium gray, carbonaceous.	
3520	3530	30	<u>Coal.</u>	
		70	<u>Shale</u> , medium gray and brown.	
3530	3540	20	<u>Coal.</u>	
		80	<u>Shale</u> , as above.	
3540	3640		Skip.	
3640	3650	100	<u>Sandstone</u> , light gray, very fine, sub rounded, argillaceous.	
3650	3700	100	<u>Sandstone</u> , white, fine-medium, sub angular-sub rounded, poorly sorted, argillaceous, with black and light green grains.	
3700	3710	100	<u>Sandstone</u> , as above.	
3710	3760	100	<u>Sandstone</u> , as above, fine-very fine.	
3760	3770	100	<u>Sandstone</u> , as above, calcareous, <u>20% spotty yellow fluorescence, cut fluorescence as above.</u>	
3770	3780	100	<u>Sandstone</u> , as above.	
3780	3790	100	<u>Sandstone</u> , as above, with <u>10% spotty yellow fluorescence</u> , no cut fluorescence.	
3790	3800	100	<u>Sandstone</u> , as above.	
3800	3810	100	<u>Sandstone</u> , as above, siliceous.	
3810	3820	100	<u>Sandstone</u> , as above, calcareous, with <u>5% spotty yellow fluorescence, cut fluorescence as above.</u>	
3820	3830	100	<u>Shale</u> , medium gray.	
3830	3850	100	<u>Sandstone</u> , light gray, very fine.	
3850	3860		Skip.	
3860	3870	100	<u>Shale</u> , medium gray, silty, carbonaceous.	
3870	3910	100	<u>Shale</u> , medium gray, brown, carbonaceous.	

DITCH SAMPLES

Examined by _____ 3910 to 4500
_____ to _____Well Carson Unit #2
Field or Area San Juan County, New Mexico

FROM	TO	%	SHOWS UNDERLINED	SAMPLES	LAGGED	NOT LAGGED
<u>Samples very poor</u>						
3910	3920	100	<u>Siltstone</u> , gray.			
3920	3930	100	<u>Shale</u> , medium gray.			
3930	3940	100	<u>Sandstone</u> , light gray, very fine, sub rounded.			
3940	3950	60	<u>Shale</u> , medium gray			
		40	<u>Siltstone</u> , gray.			
3950	3960	70	<u>Siltstone</u> , as above.			
		30	<u>Shale</u> , as above.			
3960	3970	100	<u>Siltstone</u> , as above.			
3970	3980		Skip			
3980	3990	70	<u>Shale</u> , as above.			
		30	<u>Siltstone</u> , as above.			
3990	4000	50	<u>Shale</u> , as above.			
		50	<u>Siltstone</u> , as above.			
4000	4110	100	<u>Shale</u> , medium gray, silty, carbonaceous.			
4110	4130	100	<u>Siltstone</u> , light gray.			
4130	4140	100	<u>Shale</u> , medium gray, silty, carbonaceous.			
4140	4170	100	<u>Shale</u> , light gray, carbonaceous, silty.			
4170	4190	100	<u>Siltstone</u> , light-medium gray, carbonaceous, calcareous.			
4190	4260	100	<u>Shale</u> , light-medium gray, silty, carbonaceous.			
4260	4430	100	<u>Shale</u> , medium gray, silty, carbonaceous.			
4430	4450	100	<u>Shale</u> , as above, not silty.			
4450	4480	100	<u>Shale</u> , as above, silty.			
4480	4490	100	<u>Shale</u> , medium gray, silty, carbonaceous.			
4490	4500	50	<u>Shale</u> , as above.			
		50	<u>Sandstone</u> , medium gray, very fine, angular, argillaceous, carbonaceous.			

DITCH SAMPLES

Examined by 4500 to 4850
_____ to _____Well Carson Unit #2
Field or Area San Juan County, New Mexico

FROM	TO	%	SHOWS UNDERLINED	SAMPLES XXXXXX NOT LAGGED
4500	4510	100	<u>Siltstone</u> , light gray, slightly calcareous.	
4510	4540	100	<u>Shale</u> , medium gray, silty, carbonaceous.	
4540	4560	100	<u>Siltstone</u> , light gray, slightly calcareous, carbonaceous.	
4560	4690	100	<u>Shale</u> , light-medium gray, silty, carbonaceous.	
4690	4700	100	<u>Shale</u> , as above, trace <u>Sandstone</u> , white, very fine, angular, well sorted, with green specks.	
4700	4710	100	<u>Sandstone</u> , as above, calcareous, trace; rest is <u>Shale</u> , <u>spotty yellow fluorescence, very pale, light yellow cut fluorescence when cut.</u>	
4710	4720	100	<u>Shale</u> , medium gray, silty, carbonaceous.	
4720	4750	100	<u>Shale</u> , medium gray, silty, carbonaceous, slightly calcareous.	
4750	4770	100	<u>Shale</u> , medium gray, silty, carbonaceous.	
4770	4780	80	<u>Shale</u> , as above.	
		20	<u>Sandstone</u> , light gray, very fine-siltstone, argillaceous, poorly sorted.	
4780	4790	100	<u>Shale</u> , as above.	
4790	4800	70	<u>Shale</u> , as above.	
		30	<u>Sandstone</u> , as above.	
4800	4810	70	<u>Shale</u> , as above.	
		30	<u>Sandstone</u> , gray brown, very fine-fine, angular, poorly sorted , glauconitic?	
4810	4820	100	<u>Shale</u> , as above.	
4820	4830	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , gray, very fine.	
4830	4840	100	<u>Shale</u> , as above.	
4840	4850	80	<u>Shale</u> , as above.	
		20	<u>Sandstone</u> , light gray, very fine, angular, well sorted, calcareous, <u>5% spotty yellow fluorescence</u> , no cut fluorescence.	

DITCH SAMPLES

Examined by _____ 1850 to 5000
_____ to _____Well Carson Unit #2
Field or Area San Juan County, New Mexico

FROM	TO	%	SHOWS UNDERLINED	SAMPLES LAGGED NOT LAGGED
1850	1860	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , light gray-brown, very fine, angular, well sorted, calcareous, <u>5% moderately yellow spotty fluorescence, pale blue yellow cut fluorescence, strong when crushed.</u>	
1860	1870	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , as above, <u>fluorescence and cut fluorescence as above.</u>	
1870	1880	100	<u>Shale</u> , with trace <u>Sandstone</u> , as above, <u>fluorescence and cut fluorescence as above.</u>	
1880	1890	95	<u>Shale</u> , as above.	
		5	<u>Sandstone</u> , as above, <u>spotty yellow fluorescence, milky cut fluorescence when crushed.</u>	
1890	1920	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , as above, <u>10% yellow fluorescence.</u>	
1920	1930	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , as above, <u>5% yellow fluorescence.</u>	
1930	1950	95	<u>Shale</u> , as above.	
		5	<u>Sandstone</u> , as above, <u>with 2% yellow fluorescence.</u>	
1950	1960	95	<u>Shale</u> , as above.	
		5	<u>Sandstone</u> , as above, <u>3% yellow fluorescence.</u>	
1960	1970	95	<u>Shale</u> , as above.	
		5	<u>Sandstone</u> , as above, <u>1% yellow fluorescence.</u>	
1970	1970	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , as above, no fluorescence.	
1980	1990	90	<u>Shale</u> , as above.	
		10	<u>Sandstone</u> , as above, <u>1% fluorescence as above.</u>	
1990	5000	75	<u>Shale</u> , as above.	
		5	<u>Sandstone</u> , as above, no fluorescence.	