

SHELL OIL COMPANY

Water Well W-3
 WELL NO.

Bisti

DRILLING REPORT
 FOR PERIOD ENDING

6-24-61

14

(SECTION OR LEASE)

T. 25 N. R. 12 W.

(TOWNSHIP OR RANCHO)

(FIELD)

San Juan, N. M.

(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
			Location: 2553' S, 2325' W of NE Cor. Sec. 14, T. 25 N., R. 12 W., N.M.P.M., San Juan Co., N. M.
			Elevations: KB 6411.04 DF 6408.96 GR 6402.16
6-17 to 6-18	0	923	Spudded 7:00 PM 6-17-61. Ran and cement 10-3/4", H-40, 40.5# conductor pipe at 67' with 50 sx cement treated with 2% calcium chloride. Good cement returns to surface. Flanged up and waited on cement.
6-19 to 6-23	923	3845	<u>Drilled 2922'</u> Ran Induction Electrical Survey and Microlog.
6-24	3845 TD		Ran and cemented 7", J-55, 23# ST & C casing at 3844' with 225 sx cement treated with 20% Diacel D and 2% calcium chloride followed with 50 sx. cement treated with 2% calcium chloride. Bumped plug with 1500 psi. Ok. Released Rig at 8:30 AM 6-24-61.
			Mud Summary
			Wt. 9.4 - 9.7#/gal Vis. 38 - 43 sec. WL. 7.8 - 8.8 cc FC 1/32" - 2/32"
			End



CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4" 9"	0 67'	67' 3845'	10-3/4" 7"	67' 3844'
DRILL PIPE SIZES			4"	

Contractor: Great Western Drlg. Co.
 Contract Pusher: E. H. Leseberg

Drillers: B. O. Talent
 G. G. Ellis
 B. L. Northen

Company Pusher: J. E. Dozier, Jr.

J. L. Thurber

977

SIGNED

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WELL NO. W-3

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San Juan Co., New Mexico

(COUNTY)

7-17-61

14

(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
7-16	3845 TD		Rigged up to perforate Point Lookout formation. Laid surface lines. Installed BOPE. Ran Lane-Wells Correlation Log and bullet perforated intervals 3684-95, 3723-73, and 3781-92 with 1/2" bullets @ 2 holes/ft. (72 feet of perforations) using Lane-Wells selective firing E Gun.
7-17	3845 TD		<u>Stage I frac job.</u> Sand water fractured Point Lookout formation with 30,000 gallons water (from Water Well W-2) and 20,000 lb. 10-20 mesh sand followed by 6,000 lb. 8-12 mesh sand. Breakdown surface pressure was 2400 psi with treating pressures of 1400-1600 psi. Dropped 100 rubber balls halfway through job and got pressure increase of 200 psi which broke back to 1400 psi for remainder of treatment. Dropped 4,000 lb. 10-20 mesh sand @ 4#/gal. for sand plug followed by 5,000 gallons fill-up water. Immediate shut-in pressure was 1000 psi. <u>Stage II frac job.</u> Bullet perforated 3279-3558 in intervals @ 2 holes/ft. (127 feet of perforations). Touched sand fill on first perforating run @ 3680 feet. Perforating gun went into sand fill at approximately 3650 feet while feeling for sand fill after last perforating run. Pulled out of rope socket and left gun in hole after pulling 5,000 lb. on wire line. Sand water fractured interval 3279-3558 with 50,000 gallons water and 30,000 lb. 10-20 mesh sand, followed by 7,000 lb. 8-12 mesh sand. Breakdown pressure was 2000 psi with treating pressure of 1300-1400 psi. Dropped 150 rubber balls halfway through job and pressure rose to 4000 psi. Bled off pressure three times before balls fell off perfs. Finished treatment at 1800-2000 psi treating pressure. Average rate was 50 BPM. Dropped 4,000 lb. of 10-20 mesh sand at 4#/gal. for sand plug followed by 3600 gallons fill-up water. Immediate shut-in pressure was 1000 psi and 240 psi in 1 hour. Bled off slowly at wellhead. Dead in 2 hours and 5 minutes.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4"	0	67	10-3/4"	67'
9"	67	3845	7"	3844'
DRILL PIPE SIZE 4"				

SHELL OIL COMPANY

Water Well
 WELL NO. W-3

DRILLING REPORT
 FOR PERIOD ENDING

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(FIELD)

San Juan Co., New Mexico

(COUNTY)

7-19-61

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(SECTION OR LEASE)

T. 25 N., R. 12 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
7-17	3845 TD		<p><u>Stage III frac job.</u></p> <p>Bullet perforated 2724-3214 in intervals at 2 holes/ft. (206 feet of perforations). Found top of sand plug at 3296. Pumped in 1710 lb. sand at 4#/gal. to top of perforations. Broke down formation while pumping in sand plug at 1800 psi. Remainder of fill pumped in at 1000-1200 psi. Waited 15 minutes for sand plug to fall. Sand water fractured interval 2724-3214 with 54,000 gallons water and 41,700 lb. 10-20 mesh sand followed by 7,000 lb. 8-12 mesh sand. Breakdown pressure was 2600 psi with treating pressure of 1300 psi. Dropped 100 balls halfway through job and pressure went to 3400 psi at 18 BPM. Bled off pressure to 800 psi and dropped balls off perforations. Completed treatment at 1400 psi with an injection rate of 60 BPM. Average rate for entire treatment was 58 BPM. Immediate shut-in pressure was 1000 psi which dropped to 800 psi in 7 minutes. Shut in overnight. On vacuum after 12 hours. Sand top at 3106 feet.</p>
7-18	3845 TD		Reverse circulated sand out of hole and found fish at 3609.
7-19	3845 TD		Recovered fish with overshot. Cleaned out sand to bottom. Moved off rig.
7-21 to 8-8	3845		Ran B-J pump on 3" tubing with intake at 2628. Maihak at 2597. Initial production - pumping 3150 B/D water.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
13-3/4"	0	67	10-3/4"	67'
9"	67	3845	7"	3844'
DRILL PIPE SIZES				
4"				

SIGNED