

## SHELL OIL COMPANY

WELL NO. Govt. 12-15Bisti Field

(FIELD)

San Juan Co., New Mexico

(COUNTY)

## DRILLING REPORT

FOR PERIOD ENDING

May 20, 1956Section 15

(SECTION OR LEASE)

T25N., R12W., NMBM

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS															
	FROM	TO																
			<p>Location: 1980' S. and 660' E. of NW corner, Section 15, T. 25 N., R. 12 W., N.M.B.M., San Juan County, New Mexico.</p> <p>Elevations: D.F. 6226.31' G.L. 6218.51' K.B. 6228.31'</p>															
5-11	0	225	Spudded 3:00 A.M. (5-11-56). Drilled 225'. Ran 8 5/8", 24#, J-55, S.T. & C. Spang casing, shoe at 223'. Halliburton cemented with 100 sacks construction cement treated with calcium chloride, 112 lbs./cu. ft. slurry.															
5-12			Installed 10" series 900 double, hydraulic control gate with pipe rams and complete shut-off rams. Tested B.O.E. and casing with 700 psi for 15 minutes.															
5-13 to 5-20	225	4906	<p>Drilled 4681', used Tri-mulso mud. Treated mud with water, gel, trimo, crude oil, driscose.</p> <p><u>Mud Summary:</u></p> <p>Wt. 9.2-10.5 Lbs./Gal. Vis. 35-48 Sec. W.L. 5.6-6.2 cc. F.C. 1/32".</p>															
<p>CONDITION AT BEGINNING OF PERIOD</p> <table border="1"> <thead> <tr> <th colspan="3">HOLE</th> <th>CASING SIZE</th> <th>DEPTH SET</th> </tr> <tr> <th>SIZE</th> <th>FROM</th> <th>TO</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			HOLE			CASING SIZE	DEPTH SET	SIZE	FROM	TO								
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<p>DRILL PIPE SIZES <u>4 1/2"</u></p>																		

**RECEIVED**  
JUL 20 1956  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

Tested B.O.E. daily.

Contractor: H. B. Lynn Corporation.



R. W. Olsen

SIGNED

## SHELL OIL COMPANY

WELL NO. Govt. 12-15

## DRILLING REPORT

FOR PERIOD ENDING

May 28, 1956

Bisti Field

(FIELD)

San Juan Co., New Mexico

(COUNTY)

Section 15

(SECTION OR LEASE)

T25N., R12W., NMBM


(TOWNSHIP OR RANCHO)

DAY 1956	DEPTHS		REMARKS
	FROM	TO	
5-21			Ran Schlumberger Electrical Survey, Gamma Ray-Neutron Log, Microlog.
5-22			Ran 5 1/2", 17#, S.T. & C. casing, shoe at 4900'. Halliburton cemented with 350 sacks construction cement. Ran Schlumberger Temperature Survey, top of solid cement in annulus at 3500'±.
5-23			Ran tubing with 4 3/4" bit, cleaned out cement to 4885'. Ran Schlumberger Gamma Ray-Neutron log with collar locator.
5-24			Displaced mud with oil. Released drilling rig 12 noon 5-23-56.
5-25			Completion rig, Roberts Drilling Co., rigged up. Pulled tubing, ran casing scraper.
5-26 to 5-28			Schlumberger perforated four 1/2" jets per foot at 4810-4792', 4787-4775', 4766-4756'. Dowell sand oil fracture treatment #1: Injected 4200 gal. (100 bbl.) crude oil, break down pressure 3400 psi, average rate 44 bbl./min. at 1800 psi. Followed with 15,000 gal. (357 bbl.) oil with one lb. 20 to 40 mesh sand per gallon and 15,000 gal. (357 bbl.) oil with 2 lbs. sand per gallon, no build up pressure, injection rate 48 bbl./min. at 1800 psi. Displaced with 125 bbl. oil and overflushed with 100 bbl. oil, rate 44 bbl./min. at 1950 psi. Shut in casing. Casing pressure 500 psi after 1 hour. Casing pressure after 10 hours 0 psi. Opened well, would not flow. Set Baker Model E-3 bridge plug at 4752'. Satisfactorily pressure tested plug with 3500 psi for 5 min. Perforated with four 1/2" jet holes per foot at 4750-4728'. Sand oil fracture treatment #2: Broke down formation with 4200 gal. (100 bbl.) crude oil, 1200 psi, pressure increased to 2200 psi at 40 bbl./min. Injected 15,000 gal. (357 bbl.) crude oil with 1 lb. of 20-40 mesh sand per gallon, 36 bbl./min. at 2200 psi. Followed by 15,000 gal. (357 bbl.) oil with 2 lbs. sand per gallon at 30 bbl./min., 1950 psi increased to 2200 psi. Final pressure 2100 psi at 24 bbl./min. Displaced with 125 bbl. oil and overflushed with 100 bbl. oil. Shut in casing, pressure after 15 minutes 0 psi. Opened well after 10 hours, would not flow. Fracture Treatment #1 total 43,632 gallons oil and 45,000# sand. Fracture Treatment #2 total 43,638 gallons oil and 45,000# sand.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
11"	0'	225'	8 5/8"	223'
7 7/8"	225'	4906'	5 1/2"	4900'
DRILL PIPE SIZES 4 1/2"				

Contractor: Roberts Drilling Company



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## SHELL OIL COMPANY

WELL NO. Govt. 12-15Bisti Field

(FIELD)

San Juan Co., New Mexico

(COUNTY)

## DRILLING REPORT

FOR PERIOD ENDING

June 7, 1956Section 15

(SECTION OR LEASE)

T25N., R12W., NMBM

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1956			
5-29			Set bridge plug at 4721'. Tested plug with 3000 psi for 5 minutes (OK). Schlumberger perforated four 1/2" jet holes per foot at 4714-4700'.
5-30 to 6-6 6-7			<p><u>Sand oil fracture treatment No. 3:</u> Broke down formation at 3500 psi with 3780 gal. (90 bbl.) crude oil, injection rate 28 bbl./min. at 3100 psi. Injected 4200 gal. (100 bbl.) crude oil with 1/2 lb. 20-40 mesh sand per gal. at 32 bbl./min. and 2900 psi. Followed by 6720 gal. (160 bbl.) crude oil with 1 lb. sand per gal. at 32 bbl./min. and 2900 psi. Followed by 6720 gal. (160 bbl.) crude oil with 1-2 lbs. sand per gal. at 35 bbl./min. and 2900 psi. Followed by 2100 gal. (50 bbl.) crude oil with 2 lbs. sand/gal. at 25 bbl./min. and 2900 psi. Displaced with 4950 gal. (118 bbl.) crude oil and overflushed with 2180 gal. (52 bbl.) crude oil at 36 bbl./min. and 2800 psi. decreasing to 2600 psi. 0 psi casing head pressure after 12 hours. Well would not flow. Fracture Treatment #3 total 30,650 gals. oil and 18,000# sand.</p> <p>Cleaned out bridge plugs to 4835'.</p> <p>Pulled tubing, ran bailer, located sand bridge at 4782' and bailed to 4860'. Ran 2 3/8" upset tubing with Lane Wells BOCL packer at 4652' and pump shoe at 4702'. Flanged up. Started swabbing at 7:30 A.M. Well started flowing at 9:00 A.M. (6-8-56) on 33/64" bean.</p>

## CONDITION AT BEGINNING OF PERIOD

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4 1/2"				

Contractor: Roberts Drilling Company



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DAY	DEPTHS		REMARKS														
	FROM	TO															
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CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
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