

UNITED STATES

FEB28 DEPARTMENT OF THE INTERIOR

OIL CON COM GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOC	CATE WEL	L COF	RECTLY									
Compa	ny Sh	ell	il Com	pany			Addres	s1	6. C. Sox	1200, /6	raingt	on, Na Na
Lessor	or Tract	7	ederal	- Wate	r well		Field	14	isti	State	New .	exico
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No. 1,	from		None	_ to			No. 4	, fron	n	to		
No. 2,	from	. .		_ to			No. 5	, fron	n	to)	
No. 3,	from			_ to			No. 6	, fron	a	to	'	
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		-:										
				MUD	DING A	ND (CEMENT	ING	RECORD			
Size	Where	set	Numb	er sacks of	cement	M	lethod used		Mud gravity	An	nount of n	nud used
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-5/8	2835	k	بۆر -Dia	mix](4)	1139	lacement					
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Size	SI	hell use	d	Explosive	used	Qua	untity 3	ate	Depth shot		Depth clea	ned out
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						TOO	LS USED)				· · · · · · · · · · · · · · · · · · ·
Rotary	tools we	ere us	ed from .	·····o	fee	t to	3325	feet	, and from		feet to	feet
C a ble t	tools were	used	from		fee		1	feet	, and from		feet to	feet
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Fe	bruary	21		, ¹⁹ 6.	r		Put to	proc	iucing	eember	~	oil;%
) Darı	eis o	i fluid of wh	ich	% was	011;%
				_	$\mathbf{sediment}$		G 11				_	
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Bisti (FIELD)

DRILLING REPORT FOR PERIOD ENDING

(SECTION OR LEASE) T. 25 N., R. 12 W. (TOWNSHIP OF RANCHO)

San To	(FIELI		9-17-60 T. 25 N. R. 12 W.						
Dan Ji	(coun	W Mexico	7-17-00 T. 25 N., R. 12 W. (TOWNSHIP OR RANCHO)						
DAY DEPTHS			REMARKS						
1960	PROM	70	ĢEMARNS						
			Location: 454' S. and 2070' W. of Northeast corner, Section 24, T. 25 N., R. 12 W., N.M.P.M., San Juan County, New Mexico. Elevations: KB 6434.9, DF 6433.4, GL 6425.7						
9/6	0	156	Spudded 9:00 A.M. 9-6-60. Ran and cemented (61') 13-3/8" - 48# H-40 casing at 70' with 70 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 400 psi, OK.						
9/7 to 9/13	156	3825	Drilled 3669. (12-1/4" hole) drilling with water.						
9/14 to 9/17	3825 TD		Ran Electrical Survey - Sonde stopped at 700¹. Ran bit - hit bridges at 1000 - 2700¹. Bit stopped 100¹ off bottom. Mixed mud. Attempted to run Electric Log - sonde stopped at 700¹, spudded through to 1100¹. Conditioned mud - tight spot at 2040¹. Attempted to run logs - stopped at 896¹. Conditioned mud - made two round trips. Ran Electrical Survey and Microlog. Ran and cemented (2826¹) 8-5/8π, 32#, H-40 casing at 2835¹ with 650 sacks 1:1 Diamix and 100 sacks regular cement. Ran temperature survey - found solid cement behind casing at 1100¹. Drilled out cement plug - cleaned out to bottom. Released rig 7:00 P.M. 9-17-60. Mud Summary: Wt. 8.9 - 9.1#/gal. Vis. 80 - 165 sec. WL 5.8 - 6.4 cc FC 2/32™ Contractor: Brinkerhoff Drilling Company Contractor Pusher: J. Babcock Drillers: S. E. Kenney E. Babcock J. Speaker Co. Pusher: E. B. Johnstone						
	CC	NDITION A	END OF PERIOD						

	•	CONDITIO	N AT EN	O OF PERIOD
	HOLE		CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4	0	3825	13-3/8#	701
			8-5/8#	28351
DRILL SIZI	PIPE 4	-1/2		

PD 4A 2-30 PRIN Preprint ** M 1718-P 5-59

2-30 PRINTED IN U. S. A. 3-58

SHELL OIL COMPANY

Bisti Water Well

Bisti

(COUNTY)

DRILLING REPORT
FOR PERIOD ENDING

24 (SECTION OR LEASE)

(FIELD)
San Juan, New Mexico

11-6-60

T. 25 No. R. 12 We (TOWNSHIP OR RANCHO)

DAY DEPTHS		тнв	
	PROM	70	REMARKS
9/18	3825 TD		Moved in completion rig. Swabbed 250± barrels water in 9 hours, fluid level 700° from surface.
9/19			Cleaned up location.
9/20 to 9/21			Ran pump and rods. Puming 6:00 P.M. 9-21-60.
9/22			Pumping - no gauge.
9/23			Pumping maddy water - no gauge.
9/24 to 10/4			Pumped average 131 B/D water.
10/5			Pumped 24 hours (not tested). Installing main power line.
10/6 to 10/15			Pumped average of 113 B/D water.
10/16			Pulled rods and tubing.
10/17 to 10/24			Shut in for pressure buildup.
10/25			Ran 24-hour static pressure survey. Installed power lines.
10/26			Rigged up to bail. Ran bailer - hit fill at 2930't. Bailed approximately 6 su. ft top of fill remained at 2925-2930'.
10/27 to 11/6			Shut in.

	HOLE		CASING SIZE	DEPTH SET
STZZ	FROM	то		
2-1/4"	0	3825	13-3/8°	70°
			8-5/8#	2 8 35°

SHELL OIL COMPANY

Bisti Water Well WELL HO W-1

Bisti (FIELD) DRILLING REPORT
FOR PERIOD ENDING

24 (SECTION OR LEASE) T. 25 N., R. 12 W.

San Juan, New Mexico

11-19-60

	(COUN	TY)				(TOWNSHIP OR RANCHO)
DAY	DE	РТНВ				
	FROM	то	_	REMAI	KS	
11/7 to 11/9	3825 TD				Mixed mud. Ran 7-7/8" b and displaced water with	
11/10			a	nd seals went out on	5° where string took weigh Guiberson rotating head. 5-52°, then hole open to 2	Repaired same.
11/11				aned out to 2947° - F lough. Large chunks	ill cleans out very hard a of shale in returns.	nd hole continues to
11/12			Cle	aned out to 3:67: (22	0° in last 24 hours).	
11/13			Cle	aned out to 3262: (95	in 24 hours).	
11/14			Cle	aned out to 34781 (21	6 in last 24 hours).	
11/15			p p		reran, found fill at 3349 nt. Lost approximately 10	
11/16			Cle	aned out to 3691'.		
11/17			c). Conditioned mud 3 hour hour. Ran back, hit bridg	
11/18) F	ulled into casing, wa	o fill in bottom). Circulited 4 hours. Hit small bom. Circulated 45 minutes urs, hit slight bridge at	ridges at 2942 and and pulled into
11/19			H g F W	tung at 3815° on B & World in. Displaced mumped in 163 cubic feater), pressure increduilt up several times	# liner perforated with 48 liner hangers. Liner too ud in open hole with water et 8-12 gravel (3 cubic ft ased abruptly to 2500 psi. in attempt to break down ut gravel - no success. T	ok 8000# wt. at 3249! (145 barrels) gravel/5 barrels Bled down and bridge - no success. Tried to rotate tubing
		ONDITIO			to release from hanger be Pulled 45,000# on tubing	
	HOLE		CASING SIZE	DEPTH SET	suddenly several times,	
SIZE	FROM	то]	1	hanger.	

	•	CONDITIO	MAT KIN	D OF PERIOD
	HOLE		CASING SIZE	DEPTH SET
SIZE	FROM	то		
12-1/4	0	3825	13-3/8"	701
			8-5/8#	2835*
			5 - 5/8#	Liner 2835-3815
DRILL	PIPE 4	-1/2		

2-50 PRINTED IN U. S. A. 3-58

SHELL OIL COMPANY

Bisti Water Well

Bisti (FIELD)

DRILLING REPORT FOR PERIOD ENDING

(SECTION OR LEASE)

San Juan, New Mexico

(TOWNSHIP OR RANCHO)	<u>13060</u>	 T.	25	N.	R.	12 1	J .	
	· •		(TOV	NISHIF	OR R	ANCHO)	,	

DAY	DAY DEPTHS		DENADAC					
	FROM	то	REMARKS					
11/20	3825 TD		Pulled tubing and gravel packing tools. Made up liner seal cap on bottom. Ran in, hit tight spot at 756°. Pulled out, leaving bottom 20° of liner seal cap in hole. Ran spear, engaged fish at 771°.					
11/21			Recovered fish consisting of 7-9/16" OD sleeve on third try with spear. Fish was stuck on spear with rubber and lead from packer element. Ran 7-3/4" impression block which dragged at 760', but went through. Block showed slight growing on one side and reduction in size to 7-11/16" minimum OD. Reran block to bottom with no drag at 760' and recovered good imprint of top of liner hanger. One piece of lead was stuck in impression block. Ran 7-1/2" x 36" feeler to 2650'. Free all the way down.					
11/22			Ran 7-3/8" OD liner seal cap, set with 10,000#. Ran 2" tubing open ended to 3699; sleaned out fill (mud and gravel) to bottom (3815).					
11/23			Rigged down drilling equipment.					
11/24			Ran Reda pump on 3" tubing, hung pump at 2718". Pumped approximately 2 hours, 5760 B/D rate with stabilized fluid level at 2480".					
11/25			Started Reda pump at 1:30 P.M. (Fluid level 490), pumping at rate of 6250 B/D rate. Fluid level at 4:10 P.M., 2510.					
11/26			Pumping at rate of 4800 barrels - fluid level 2645 at 6:30 P.M.					
11/27			Shut in. Changed manifolding to high pressure fittings. Preparing old water well for water disposal (Bisti field source water well).					
11/28			Attempted to inject water into old water well, pressure increased from 100 to 450 psi. Shut down Reda pump.					
11/29			Rigged pump and tank at old water well. Started producing at 3:48 P.M. and injecting into old water well. Pumped 15 hours at rate of 4300 B/D. Injection pressure at old well increased from 450 psi to 550 psi during first 11 hours, stabilized at 550 psi last 4 hours.					
11/30			Pumped and injected into old water well - rate 5,000 B/D.					

	•	ONDITIO	N AT EN	D. OF PERIOD
	HOLE		CASING SIZE	DEPTH SET
SIZE	FROM	то		
12 -1/4 ዞ	0	3825	13-3/8"	70°
			8-5/8"	28351
			ó-5/8¶	Liner 2835-3815
DRILL \$1ZE	PIPE 4	-1/2		

2:30 PRINTED IN U. S. A. 3-58

SHELL OIL COMPANY

Bisti Water Well

Bisti (FIELD) San Juan, New Mexico

(COUNTY)

DRILLING REPORT FOR PERIOD ENDING

7-3-67

24
(SECTION OR LEASE)
T. 25 N., R. 12 N.
(TOWNSHIP OR RANCHO)

i	,						
DAY	DEPTHS		REMARKS				
	FROM	то					
12/1	3825 TD		Pumped 4300 B/D rate, fluid level stabilized at 2550°. Froduction water directed to samp.				
12/2			Pumped 4300 B/D± with 225 psi at wellhead, fluid level 2547°.				
12/3			Pumped 3600 B/Dt with 330 psi at wellhead, fluid level 2592.				
12/4			Pumped at rate of 3.20 B/D rate at 10:00 A.M., 215 pai at wellhead, fluid level 26:8. Shut in at 4:30 P.M. due to repeated automati shutdown by the Reia pump control system.				
12/5 to 12/18			Shut in.				
12/19			Started pump - pumping to stabilize and obtain pressure buildup.				
12/20			Pumped at stabilized rate of 3100 B/D for 12 hours, shut in.				
12/21 to 12/28			Obtained pressure buildup with Maihak pressure recorder.				
12/29 to 1/3/61			Shut in, pulled Reda pump - suspended operations.				
1/3/01							
		ONDITION A	T END OF PERIOD				
	HOLE	CAE	SING SIZE DEPTH SET				

		CADITIC	M VI BIMIT	OF PERIOD
	HOLE		CABING SIZE	DEPTH SET
SIZE	FROM	то		
12-1/4	0	3825	13-3/8"	70:
			8-5/8#	2835°
			6-5/8 *	Liner 2835-3815
DRILL		-1/2		