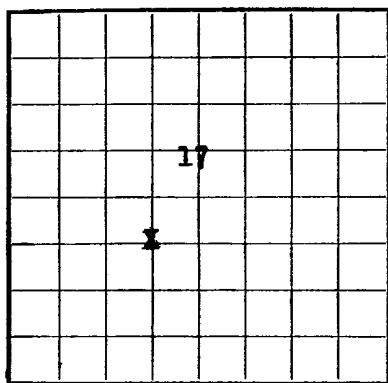


10-10 west
12 9

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

SHELL OIL COMPANY
108 NORTH BEHRND

Company Shell Oil Company Address 32 Pichardo Farmington, New Mexico
 Lessor or Tract Federal Land Field Bisti State New Mexico
Carson Unit
 Well No. 23-17 Sec. 17 T. 25N R. 11W Meridian NMPM County San Juan
 Location 1980 ft. N. of S Line and 2085 ft. E. of W Line of Sec 17 Elevation KB 6374
 (Derriek floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed BW Shepard

Date March 14, 1957 Title Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling February 25, 1957 Finished drilling March 6, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4872 to 4972 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from none noted to _____

No. 4, from _____ to _____

CASING RECORD

Size casting	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From--	To--	
8 5/8	28	8	-	201	Baker	-			Surface
5 1/2	14	8	-	5038	Baker	-	1872	1876	Production
							1881	1881	
							1888	1890	
							1934	1934	
							1937	1937	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	214	150	Displacement	-	-
5 1/2	504.9	200	Displacement	-	-

PLUGS AND ADAPTERS

~~Inserting~~ plug—Material Cement Length cleaned out to depth of 5021
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
nut	Comp		None			

TOOLS USED

Rotary tools were used from 0 feet to 5075 feet, and from - feet to - feet.
Cable tools were used from - feet to - feet, and from - feet to - feet.

DATES

March 14 1957 Put to producing March 14 1957

The production for the first 24 hours was 312 barrels of fluid of which 99.9 % was oil; ----- % emulsion; ----- % water; and 0.1 % sediment. Gravity, ~~111~~ 111 Approx 39.4° API

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. -----

EMPLOYEES The New Drilling Co.
C. E. Phillips

G. L. Rosenbaum Driller

H. P. Phillips Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1198	1402	204	Pictured Cliffs
1402	1556	154	Lewis
1556	2028	472	Cliff House
2028	3656	1628	Allison-Menefee
3656	3866	210	Point Lookout
3866	4814	948	Mancos
4814	-		Gallup

100-443887-13

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D. C.
APR 25 1927
U. S. GEOLOGICAL SURVEY
WASHINGTON, NEW MEXICO

108 NORTH BEND
SHELL OIL COMPANY
LOC OF OIL OR GAS WELL

[illegible]

LOCATE WELL CORRECTLY

The information given herewith is a complete record of the well and all work done thereon so far as can be determined from all available records.

Signed _____
Date March 26, 1987

Name _____ Title _____ Chief Person Interviewed

Location _____ Date of Drilling _____
 $\frac{1}{2}$ " of _____ Case and SQ.DS
Weld No. SS-1A Seal SR-1H Addition
Gravel Not Used
Inches or Feet _____ inches
Company _____ Shell Oil Company

17 The summary on this page is for the committee's use only. It should not be distributed outside the committee.

1000 900 800 700 600 500 400 300 200 100 0

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

ACROSS THE BOARD

Attached Shell Drilling History

It is of the greatest importance to have a complete history of the well. Please state in detail the date of drilling, together with the reasons for the work and its results. If there were any changes made in the casing, bottoming, or any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If pings or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

House	Number	Year	Month	Day	Time	Location	Remarks
1	1	1961	1	1	1	1	1
2	2	1961	2	2	2	2	2
3	3	1961	3	3	3	3	3
4	4	1961	4	4	4	4	4
5	5	1961	5	5	5	5	5
6	6	1961	6	6	6	6	6
7	7	1961	7	7	7	7	7
8	8	1961	8	8	8	8	8
9	9	1961	9	9	9	9	9
10	10	1961	10	10	10	10	10
11	11	1961	11	11	11	11	11
12	12	1961	12	12	12	12	12
13	13	1961	13	13	13	13	13
14	14	1961	14	14	14	14	14
15	15	1961	15	15	15	15	15
16	16	1961	16	16	16	16	16
17	17	1961	17	17	17	17	17
18	18	1961	18	18	18	18	18
19	19	1961	19	19	19	19	19
20	20	1961	20	20	20	20	20
21	21	1961	21	21	21	21	21
22	22	1961	22	22	22	22	22
23	23	1961	23	23	23	23	23
24	24	1961	24	24	24	24	24
25	25	1961	25	25	25	25	25
26	26	1961	26	26	26	26	26
27	27	1961	27	27	27	27	27
28	28	1961	28	28	28	28	28
29	29	1961	29	29	29	29	29
30	30	1961	30	30	30	30	30
31	31	1961	31	31	31	31	31
32	32	1961	32	32	32	32	32
33	33	1961	33	33	33	33	33
34	34	1961	34	34	34	34	34
35	35	1961	35	35	35	35	35
36	36	1961	36	36	36	36	36
37	37	1961	37	37	37	37	37
38	38	1961	38	38	38	38	38
39	39	1961	39	39	39	39	39
40	40	1961	40	40	40	40	40
41	41	1961	41	41	41	41	41
42	42	1961	42	42	42	42	42
43	43	1961	43	43	43	43	43
44	44	1961	44	44	44	44	44
45	45	1961	45	45	45	45	45
46	46	1961	46	46	46	46	46
47	47	1961	47	47	47	47	47
48	48	1961	48	48	48	48	48
49	49	1961	49	49	49	49	49
50	50	1961	50	50	50	50	50
51	51	1961	51	51	51	51	51
52	52	1961	52	52	52	52	52
53	53	1961	53	53	53	53	53
54	54	1961	54	54	54	54	54
55	55	1961	55	55	55	55	55
56	56	1961	56	56	56	56	56

FILES AND ADAPTERS

.....

SHOULD THE RECORD

Year	Number of cases	Number of deaths	Number of recoveries	Number of cases with complications	Number of cases with sequelae	Number of cases with long-term effects
1990	100	10	80	5	10	5
1991	120	12	90	6	12	6
1992	150	15	110	8	15	8
1993	180	18	130	10	18	10
1994	200	20	140	12	20	12
1995	220	22	150	14	22	14
1996	250	25	170	16	25	16
1997	280	28	190	18	28	18
1998	300	30	200	20	30	20
1999	320	32	210	22	32	22
2000	350	35	230	24	35	24
2001	380	38	250	26	38	26
2002	400	40	270	28	40	28
2003	420	42	290	30	42	30
2004	450	45	310	32	45	32
2005	480	48	330	34	48	34
2006	500	50	350	36	50	36
2007	520	52	370	38	52	38
2008	550	55	400	40	55	40
2009	580	58	430	42	58	42
2010	600	60	450	44	60	44
2011	620	62	470	46	62	46
2012	650	65	500	48	65	48
2013	680	68	530	50	68	50
2014	700	70	550	52	70	52
2015	720	72	570	54	72	54
2016	750	75	600	56	75	56
2017	780	78	630	58	78	58
2018	800	80	650	60	80	60
2019	820	82	670	62	82	62
2020	850	85	700	64	85	64
2021	880	88	730	66	88	66
2022	900	90	750	68	90	68
2023	920	92	770	70	92	70
2024	950	95	800	72	95	72
2025	980	98	830	74	98	74
2026	1000	100	850	76	100	76
2027	1020	102	870	78	102	78
2028	1050	105	900	80	105	80
2029	1080	108	930	82	108	82
2030	1100	110	950	84	110	84
2031	1120	112	970	86	112	86
2032	1150	115	1000	88	115	88
2033	1180	118	1030	90	118	90
2034	1200	120	1050	92	120	92
2035	1220	122	1070	94	122	94
2036	1250	125	1100	96	125	96
2037	1280	128	1130	98	128	98
2038	1300	130	1150	100	130	100
2039	1320	132	1170	102	132	102
2040	1350	135	1200	104	135	104
2041	1380	138	1230	106	138	106
2042	1400	140	1250	108	140	108
2043	1420	142	1270	110	142	110
2044	1450	145	1300	112	145	112
2045	1480	148	1330	114	148	114
2046	1500	150	1350	116	150	116
2047	1520	152	1370	118	152	118
2048	1550					

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[illegible]

10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39
40	41	42
43	44	45
46	47	48
49	50	51
52	53	54
55	56	57
58	59	60
61	62	63
64	65	66
67	68	69
70	71	72
73	74	75
76	77	78
79	80	81
82	83	84
85	86	87
88	89	90
91	92	93
94	95	96
97	98	99
100	101	102

1. The Board of Directors shall have the authority to declare dividends on the common stock of the Corporation.	2. The Board of Directors shall have the authority to issue and reissue the Corporation's securities.
3. The Board of Directors shall have the authority to enter into contracts, leases, and other agreements on behalf of the Corporation.	4. The Board of Directors shall have the authority to appoint and remove officers and directors of the Corporation.
5. The Board of Directors shall have the authority to adopt and amend the Corporation's bylaws.	6. The Board of Directors shall have the authority to sue and be sued on behalf of the Corporation.
7. The Board of Directors shall have the authority to make any other action that may be necessary or proper for the Corporation.	

CHIEF NOTARIES

[illegible]

FROM-	TO-	TOTAL FEET	FORMATION
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FORMATION RECORD—Continued

SHELL OIL COMPANY

DRILLING REPORT

FOR PERIOD ENDING

3-8-57

WELL NO. 23-17

17

Bisti - Carson Area

(FIELD)

San Juan, New Mexico

(COUNTY)

(SECTION OR LEASE)

T. 25 N., R. 11 W.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
			Location: 1980' N. and 2085' E. of the southwest corner, Section 17, T. 25 N., R. 11 W., NMPM, San Juan County, New Mexico. Elevations: MAT 6361.0 DF 6372.0 KB 6373.7
2-25 to 2-26	0	1405	Drilled 1405'. Spudded 3:30 P.M., February 25, 1957. Ran and cemented (201') 8-5/8", 28# casing at 214' with 150 sacks treated construction cement. Good cement returns to surface. Finished 10:00 P.M. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi for 15 minutes, OK.
2-27	1405	2300	Drilled 880'. Cored 15', Core #1, 1975-1990'
2-28 to 3-6			Drilled 2775'. Treated mud with Rayflo, soda ash, caustic, gel and oil.
3-7	5075	T.D.	Ran Electrical Survey and Microlog. Ran and cemented 152 joints (5038') of 5-1/2", 14# casing at 5049' with 200 sacks construction cement, 5 bbl of water ahead. Plug down 2:15 P.M. Pressure tested with 1500 psi, OK.
3-8			Cleaned out to 5021'. Displaced mud with oil. Ran Gamma Ray log with collar locator. Perforated four 1/2" jets/ft. intervals 4872-4876', 4881-4883', 4888-4896', 4934-4936', 4949-4955' and 4967-4972'. Ran tubing to 4868'. Swabbed well in. Released rig 8:30 P.M. Shut in well. Checked BOP daily

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	240	8-5/8"	214'
7-7/8"	240	5075	5-1/2"	5049'
DRILL PIPE 4-1/2 SIZES				

The New Drilling Company

Tool Pusher: R. L. Menius
 Drillers: G. L. Rosenbaum
 H. P. Phillips
 C. E. Phillips

E. B. Johnstone

SHELL OIL COMPANY

WELL NO. 23-17

Bisti - Carson Area

DRILLING REPORT
FOR PERIOD ENDING

17

(FIELD)
San Juan, New Mexico
(COUNTY)

3-14-57

(SECTION OR LEASE)
T. 25 N., R. 11 W.
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
57			
3-13	5075 5021	T.D. PBD	Opened well, flowed 15.5 hours, 213 bbls gross, 213 bbls oil (330 B/D rate), cut 0.1%, 160 MCF/D, GOR 490, 37/64" bean.
3-14			<u>INITIAL PRODUCTION</u> Flowing 312 bbls. gross, 312 bbls. oil, cut 0.1% 37 & 48/64" bean, 120 MCF/D GOR 380, TP 60. Officially completed 3-14-57.

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	240	8-5/8"	214'
7-7/8"	240	5075	5-1/2"	5049'
DRILL PIPE SIZES		4-1/2		



E. B. Johnstone

SHELL OIL COMPANY

WEEK ENDING

AREA OR FIELD Bisti

CORE FROM 1975 TO 1990

COMPANY Shell Oil Company

CORES EXAMINED BY R. W. Olsen

LEASE AND WELL NO Carson Unit 23

CORE RECORD

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE	
							INDICATIONS OIL- GAS	CORE OR DITCH
1	1975	1990	15'	Sandstone, light gray, fine to very fine grained, well sorted, very slightly calcareous, slightly friable, but fairly well consolidated, massive.				
			15'					No Shows



SYMBOLS: C-CLAY OR SHALE (SAND 0-5%). 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%). 2-CLAY OR SHALE AND SAND (SAND 25-60%). 3-SAND WITH SHALE STREAKS (SAND 60-90%). S-SAND (90-100%).
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.