

Location: 1980' PNL & 660' PNL of
Sec. 11, Twp. 12-S, Rge. 8E
Lea County, New Mexico

AMERADA PETROLEUM CORPORATION

WELL SUMMARY

WELL State BT "J" NO 1 FIELD Bagley-Siluro/Devonian

T D 11,140' D O D - P B D -

CASING 13-3/8" @ 320' w/ 225 sacks TOP CEMENT Cement Circulated
8-5/8" @ 3889' w/ 1580 sacks 639'

DRILLING CONTRACTOR Creekmore Drilling Corporation

RATE \$475.00 per day plus drill pipe rental and drilling crew wages

RIG DESCRIPTION Gas Powered Rotary

DATE SPUDDED September 16, 1950 DATE COMPLETED January 17, 1951

DISTRIBUTION OF RIG TIME

RIGGING UP AND TEARING DOWN 2.59 DAYS

DRILLING, CASING AND CEMENTING 117.25 DAYS INCLUDES .35 DAYS FISHING

TESTING, SURVEYING, COMPLETING 5.41 DAYS

OVERALL TIME 125.25* DAYS *Based on 24 hour day & does not include 24 hours shut down for Christmas

HOLE SIZE 17-1/2" FROM 0' TO 307' NO BITS 1
12-1/4" FROM 307' TO 1662' 1
11" FROM 1662' TO 3903' 9
7-3/8" FROM 3903' TO 11140' 72 137

PERFORATIONS None OPEN HOLE None

ACID OR SHOT -

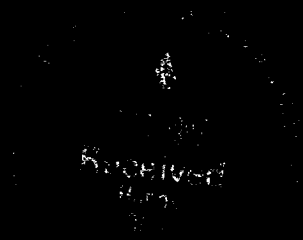
POTENTIAL TEST Dry Hole - Plugged & Abandoned

ALLOWABLE

GEOLOGICAL DATA:	ELEV	<u>4243' (Derrick Floor)</u>	Top Red Sand	<u>3194'</u>
Top Anhydrite	<u>1718'</u>		Top San Andres	<u>2778'</u>
Top Salt	<u>1775'</u>		Base San Andres	<u>5175'</u>
Base Salt	<u>2418'</u>		Top Padlock	<u>5466'</u>
Top Yates	<u>2513'</u>		Top Clear Fork	<u>5951'</u>
Base Yates	<u>2630'</u>		Top Abo	<u>7316'</u>
REMARKS			Top Wolfcamp	<u>8479'</u>
			Top Pennsylvania	<u>8730'</u>
			Top Mississippian	<u>10433'</u>
			Top Devonian	<u>10966'</u>

AMERADA P-236 10-30-11

Over to 11-9-31-51



FORMATION RECORD

FORMATION DESCRIPTION

FE	TO	THICKNESS	
0	6	6	Cellar
6	200	194	Sand, Caliche & Lim
200	1600	1400	Red Bed, Sand & Shale
1600	3700	2100	Anhydrite, Salt, Sand & Shale
3700	4300	600	Dolomite & Anhydrite
4300	4900	600	Limestone
4900	5450	550	Limestone, Dolomite, Shale & Anhydrite
5450	7000	1550	Shale, Anhydrite, Sand & Dolomite
7000	7310	310	Dolomite & Anhydrite
7310	8120	810	Shale, Dolomite & Anhydrite
8120	8455	335	Dolomite & Anhydrite
8455	8600	145	Dolomite, Anhydrite, Chert
8600	10145	1545	Limestone & Chert
10145	10445	300	Sand, Limestone & Shale
10445	10870	425	Limestone, Chert & Shale
10870	10965	95	Shale, Limestone & Sand
10965	11140	175	Dolomite & Chert
			Total Depth

Plugging Record

35 sack cement plug - 11140 to 11010'
 " " " - 8830 to 8700'
 " " " - 3930 to 3843'
 25 " " " - 1430 to 1348'
 10 sacks in top of 13-3/8" Surface Casing

SLOPE TESTS

308'	0 Deg.
834'	-1/4 "
1500'	1- "
1920'	-3/4 "
2500'	1- "
2948'	-3/4 "
3375'	-1/2 "
3780'	1-1/2 "
4183'	3/4 "
4650'	3/4 "
5240'	1- "
5925'	-1/2 "
6425'	-1/2 "
6955'	1- "
7540'	-1/2 "
8075'	-1/2 "
9185'	1-1/4 "
9600'	2- "
10028'	2-3/4 "
10330'	3- "
10787'	2-1/2 "
10912'	2-3/4 "



AMERADA PETROLEUM CORPORATION

Location: 1700' FAL. & 000' FAL. OF
Sec. 11, Twp. 12-S, Rge 33-1
Lea County, New Mexico

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	<u>12-1/4"</u>	FROM	<u>307'</u>	TO	<u>1662'</u>		<u>1</u>
	<u>11"</u>	FROM	<u>1662'</u>	TO	<u>3903'</u>		<u>9</u>
	<u>7-3/8"</u>	FROM	<u>3903'</u>	TO	<u>11140'</u>		<u>79</u>
		FROM		TO			

PERFORATIONS None OPEN HOLE None

ACID OR SHOT

POTENTIAL TEST Dry Hole - Plugged & Abandoned

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3730'	1-1/2 "
4183'	3/4 "
4650'	3/4 "
5240'	1- "
5925'	-1/2 "
6425'	-1/2 "
6955'	1- "
7540'	-1/2 "
8075'	-1/2 "
9185'	1-1/4 "
9600'	2- "
10028'	2-3/4 "
10330'	3- "
10787'	2-1/2 "
10912'	2-3/4 "

GEOLOGICAL DATA: Elev. 4243' D.F.

Sample Desc.

8750-52	Barren
52-66	Tr sl por. Tr lt stain. No fluor.
66-70	Tr por. Tr lt stain. No fluor.
70-76	Barren.
76-86	Tr to tr sl por. Tr lt stain. Sl tr fluor.
86-8882	Barren.
8889-8968	Limestone & Shale. Barren.
68-74	Limestone & Shale. Tr por. Tr lt stain. No fluor.
74-9048	Limestone & Shale. Barren.
48-70	Limestone & Shale. Broken tr por. No stain. No fluor.
70-72	Barren.
72-76	Sl tr por. No stain or fluor.
76-82	Barren.
82-86	Tr por. No stain. No fluor.
86-96	Barren.
96-9102	Sl tr to tr por. No stain or fluor.
12-15	Tr sl por. Tr dull stain. No fluor.
9336-54	Barren.
54-64	Tr por. Tr dull stain. Sl tr fluor.
64-66	Barren.
66-70	Sl tr por. No stain. No fluor.
70-76	Barren.
76-88	Tr por. Tr dull stain, sl tr fluor.
88-9442	Barren.
42-50	Tr sl por. Dull stain, no fluor.

Core #1

10926-10968 Barren.

Core #2

10968-73	Barren.
73-75	Very sl bleeding of oil. Sl tr por. Tr med stain. Tr fluor.
975-998	Barren.

Core #3

10998-11000	Barren.
11000-010	Pin point por. Tr lt stain. Sl tr fluor.
010-039	Barren.
039-040	Pin point por. Tr lt stain. Sl tr fluor.

Core #4

11040-043	Pin point por. Tr lt stain. Sl tr fluor.
043-066	Barren.
066-070	Tr por. Tr lt stain. Sl tr fluor.
070-079	Barren.
079-082	Sl tr por. Tr lt stain. No fluor.

Core #5

11082-96	Barren.
096-97	Sl tr por. Tr dark stain. Tr fluor.
097-099	Barren.

GEOLOGICAL DATA:

Core #6	
11099-101	Barren.
101-107	Sl to med vug por. Dark stain, tr fluor.
107-114	Tr to sl vug por. Dark stain, tr fluor.
114-115	Good vug por. Dark stain, tr fluor.
115-118	Tr sl vug por. Dark stain, tr fluor.
118-120	Barren.
120-122	Tr por. Dull stain, tr fluor.
122-132	Barren.
132-137	Tr por. Dull stain, tr fluor.
137-140	Barren.

Received
H. H. H.
G. H.

STATE BT "J" #1

<u>DATE 1950</u>	<u>DEPTH</u>	<u>REMARKS</u>
Sept. 9,		Authorized location center SE-1/4 of NE-1/4 of Section 11, Twp. 12S, Rge 33 East, Lea County, New Mexico. 100% Amerada interest.
Sept. 10,		Location staked by John W. West 9-9-50: 1980' FNL & 660' FEL of Sec. 11, Twp 12-S, Reg. 33-E, Lea County, New Mexico.
Sept. 11,		Cellar dug. Lease water well #1, 126' TD. Ran 5 jts., 100' of 6" OD, 9#, invasion pipe & 1 jt. 26' of 7" OD, 24#, 10 VT, smls. SH csg. on bottom. Csg. set at 126'.
Sept. 12,		MIT. Derrick skidded from Chambers #1 and set on location at 2:30 pm 9-11-50.
Sept. 13,		RU & MIT. 2 crews 8 hrs. RU. Started RU at 10 am 9-12-50. WW pumped 12 hrs. & pumped considerable amount of sand. Sand in clearing out. WW pump wet at 93'.
Sept. 14,		MI & RUT. 8 hrs. RU with 12 men. Pits completed & gas line laid. Creekmore Drlg. Co. is contractor with rotary natural gas or butane powered rig with three 350 HP Waukesha model LRO engines and Wilson type Tital drawworks.
Sept. 15,		MI & RUT. 13 men, 8 hrs. 75% finished RU.
Sept. 16,		Finished MIT at 3 pm 9-15-50. 8 hrs. RU with 3 crews. 8 hrs. RU with 2 crews. Broke tour at MN 9-15-50.
Sept. 17,	235	(235'). Red Rock. Working on cellar jet. 7 hrs. RU & drlg. rat hole. 14 hrs. drlg. Spudded 17-1/2" hole at 12 N 9-16-50. 1 hr. repair swivel. 2 hrs. working on cellar jet. Conductor pipe broke out in cellar.

DATE 1950	DEPTH	REMARKS
Sept. 18,	325	(90'). Red Bed. WOC. 6-1/2 hrs. drlg. Finished 17-1/2" hole at 6 pm 9-17-50. 2-1/4 hrs. trip time. 5-1/2 hrs. rig repair. 6-1/4 hrs. running 7 jts. & one piece of 13-3/8" OD, 36# Armeo, spiral weld, slip joint, csg., new, 301'. Csg. set at 320' & cemented with 175 sx. Regular & 50 sx. Quickset. Cement circ. 3-1/2 hrs. WOC. Totco at 308' - St.
Sept. 19,	438	(113'). Drlg. Red Bed.. 8-1/2 hrs. WOC. 13-1/4 hrs. connect up 13-3/8" csg. Started drlg. 12-1/4" hole at 3 am 9-19-50. 2-1/4 hrs. drlg.
Sept. 20,	1538	(1100'). Drlg. Red Bed. 19-1/4 hrs. drlg.. 4-3/4 hrs. jetting pits & rig repair. Totco at 834' - 1/4 deg., at 1500' - 1 deg.
Sept. 21,	1837	(299') - Drilling - Red rock & shells. Mud 8.9, Visc 32. 14 hrs drilling. 6 1/4 hrs trip time. Reduced 12 1/4" to 11" hole at 1662. Started out of hole & hole caved. 2 hrs washed to bottom, mixed mud & circulated. Worked bit through tight hole 3 jts off bottom. 1-3/4 hrs jet pits & repair mud line.
Sept. 22,	2493	(656'). Drlg. Anhy. & Salt. 17-3/4 hrs. drlg. 1-1/2 hr. jet pits. 3 hrs. trip time. Measured DP at 2070', OK. 1/2 hr. washing from 2040-2070'. 1-1/4 hr. mud line repair. Totco at 1920' - 3/4 deg.
Sept. 23,	2846	(353'). Drlg. Anhy. & Shells. 19 hrs. drlg. 4-3/4 hrs. trip time. 1/4 hr. wash cavings 2805' to 2825'. Totco at 2500' - 1 deg.

DATE 1950	DEPTH	REMARKS							
Sept. 24,	3222	(376'). Drlg. Anhy., Sand & Shale. 20 hrs. drlg. 2 hrs. cleaning pits. 2 hrs. trip time. Totco at 2948' - 3/4 deg.							
Sept. 25,	3391	(169'). - Drlg. Anhy. & Gyp. 15 hrs. drlg. 7-1/2 hrs. fishing at 3247'. Twisted off at 3022' at 9 am. Left 8 drill collars in hole. Ran Bowen overshot & caught fish. Pulled fish & ran bit. 1-1/2 hrs. clean pits & repair rig. Totco at 3375' - 1/2 deg.							
Sept. 26,	3627	(236'). Anhy. & Gyp. On trip. 18 hrs. drlg. 6 hrs. trip time. Measured DP at 3421'. No corr. Totco at 3375' - 1/2 deg.							
Sept. 27,	3822	(195'). Drlg. Anhy. & Lime. & Gyp. 16-1/4 hrs. drlg. 4-1/2 hrs. trip time. 3-1/4 hrs. rig repair. Totco at 3780' - 1-1/2 deg.							
Sept. 28,	3903	(81'). Lime. Running Schl. surveys. Mud 11.3, Visc. 35. 15 hrs. drlg. Finished 11" hole to 3903' at 11 pm 9-27-50. 4-1/4 hrs. trip time. Meas. DP at 3858' equaled 3847', 11' corr. 1/2 hr. rig repair. 1-1/2 hr. circ. at 3902'. Measured DP at 3900' equaled 3903', 3' corr. 2-3/4 hrs. running Schl. elect log & gamma ray surveys. Schl. checked bottom at 3901'.							
Sept. 29,	3903	(Ø) - Lime - WOC. Mud 11.3, Visc 35. 4 hrs finish running Schl. elec. log & Gamma Ray Surveys. 1-3/4 hrs trip in with bit. 1-1/2 hrs circulate at 3903'. 3 hrs laying down 4-1/2" DP. 8 hrs running 124 jts of 8-5/8" casing as follows - <table border="0"> <tr> <td>20 jts - 594' - 36# - 8 RT - J55- R-2, long T&C smls. csg. new.</td> </tr> <tr> <td>6 jts - 225' - 36# - ditto - R-3</td> </tr> <tr> <td>10 jts - 385' - 32# - ditto R-3</td> </tr> <tr> <td>30 jts - 1263' - 32# - ditto R-3 reg. T&C.</td> </tr> <tr> <td>31 jts - 677' - 36# - ditto R-1 " "</td> </tr> <tr> <td>26 jts - 737' - 36# - ditto R-2 " "</td> </tr> <tr> <td>1 jt - 17# - 36# - ditto R-2 " " - SH</td> </tr> </table> (continued)	20 jts - 594' - 36# - 8 RT - J55- R-2, long T&C smls. csg. new.	6 jts - 225' - 36# - ditto - R-3	10 jts - 385' - 32# - ditto R-3	30 jts - 1263' - 32# - ditto R-3 reg. T&C.	31 jts - 677' - 36# - ditto R-1 " "	26 jts - 737' - 36# - ditto R-2 " "	1 jt - 17# - 36# - ditto R-2 " " - SH
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DATE 1950	DEPTH	REMARKS
Sept. 29 - Cont'd:		Set casing at 3889'. 1 hr circulating. 1-1/4 hr cementing 8-5/8" csg with 1000 sx regular cement mixed 3% Jel, 450' sx Reg., and 50 sx Hiearly cement - Total of 1500 sx - Plug to 3824' at 1:47 am, 9-29-50. Max. pump pr.-750#. <u>3 hrs WOC.</u>
Sept. 30,	3903	(0'). Lime. Connecting 8-5/8" csg. 24 hrs. WOC & connecting 8-5/8" csg. Ran temp. survey. Top of cement outside of 8-5/8" csg. at <u>535' or 72.1% fill.</u> <i>corrected 10-1</i>
Oct. 1,	3910	(7'). Drlg. Lime. 11 hrs. connect 8-5/8" csg. 9-1/2 hrs. pick up 3-1/2" DP. 1/2 hr. test 8-5/8" csg. with 1000#, OK. 2 hrs. drlg. cement 3810 to 3889'. No open hole below casing shoe. 1/2 hr. test 8-5/8" csg., with 1000#, OK. 1/2 hr. drlg. Started drlg. 7-3/8" hole at 4:30 am 10-1-50. Corrected temp. survey. Top of cement outside 8-5/8" csg. at 639' or 70% fill.
Oct. 2,	4058	(148'). Lime. On trip. 18-1/4 hrs. drlg. 5 hrs. trip time. 3/4 hr. ran wire line to check hole & jet pits. Totco at 3924' - 1/2 deg.
Oct. 3,	4278	(220'). Drlg. Lime. 20 hrs. drlg. 3 hrs. trip time. 1 hr. jet pits. Totco at 4183' - 3/4 deg.
Oct. 4,	4396	(118'). Drlg. Lime. 12-3/4 hrs. drlg. 6-1/2 hrs. trip time. Measured DP at 4306' equalled 4308', 2' correction. 1-3/4 hrs. reaming 4275' to 4308' & 4364' to 4379'. 3 hrs. rig repair & clean pits. Totco at 4275' - 3/4 deg.
Oct. 5,	4672	(276'). Drlg. Lime. 20-1/4 hrs. drlg. 3-1/4 hrs. trip time. 1/2 hr. clean pits. Totco at 4472' - 1 deg.

Received
H. J. [illegible]
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<u>DATE 1950</u>	<u>DEPTH</u>	<u>REMARKS</u>
Oct. 6,	4898	(226'). Drlg. Line. 16 hrs. drlg. 6-1/4 hrs. trip time. 1-3/4 hrs. clean pits & rig repair. Totco at 4650' - 3/4 deg., at 4850' - 1/2 deg.
Oct. 7,	5112	(214'). Lime. On trip. 16 hrs. drlg. 7-1/2 hrs. trip time. Measured DP at 5007', OK. 1/2 hr. clean pits.
Oct. 8,	5292	(180'). Drlg. Line. 17-1/2 hrs. drlg. 3-1/4 hrs. trip time. 1-3/4 hrs. rig repair. 1/2 hr. clean pits. Totco at 5240' - 1 deg.
Oct. 9,	5554	(262'). Drlg. Line. 19-1/2 hrs. drlg. 3-1/2 hrs. trip time. 1 hr. clean pits. Totco at 5403' - 1/2 deg.
Oct. 10,	5695	(141'). Drlg. Line. 12-3/4 hrs. drlg. 7 hrs. trip time. 2 hrs. cut off drlg. line & clean pits. 2-1/4 hrs. rig repair. Totco at 5660' - 1/2 deg.
Oct. 11,	5931	(236'). Drlg. Line. 20 hrs. drlg. 3-1/2 hrs. trip time. Measured DP at 5807', OK. 1/2 hr. cleaning pits.
Oct. 12,	6055	(124'). Drlg. Line. 14-3/4 hrs. drlg. 7-1/2 hrs. trip time. 3/4 hr. washing 5956' to 6026'. 1 hr. rig repair. Totco at 5925' - 1/2 deg.

<u>DATE 1950</u>	<u>DEPTH</u>	<u>REMARKS</u>
Oct. 13,	6241	(186'). Drlg. Lime.. 19-1/2 hrs. drlg. 3-1/4 hrs. trip time.. 1-1/4 hr. clean pits.
Oct. 14,	6378	(137'). Drlg. Lime.. 14-1/4 hrs. drlg. 7-3/4 hrs. trip time.. 1-1/4 hr. washing 6175' to 6243' & 6230' to 6350'. 3/4 hr. clean pits. Totco at 6345' - 3/4 deg.
Oct. 15,	6553	(175'). Drlg. Lime.. 19 hrs. drlg. 3-3/4 hrs. trip time.. 3/4 hr. washing 6305' to 6464'. 1/2 hr. clean pits. Totco at 6425' - 1/2 deg.
Oct. 16,	6710	(157'). Drlg. Lime.. 14-3/4 hrs. drlg. 7-1/2 hrs. trip time.. 1 hr. washing 6430' to 6554' & 6550' to 6666'. 3/4 hr. clean pits. Totco at 6650' - 1 deg.
Oct. 17,	6860	(150'). Drlg. Lime.. 17 hrs. drlg. 1-1/2 hrs. jet pits.. 4-3/4 hrs. trip time. Measured DP at 6771', OK 3/4 hr. washing 6641' to 6771'. Totco at 6740' - 3/4 deg.
Oct. 18,	6992	(132'). Drlg. Lime.. 14-1/4 hrs. drlg. 8 hrs. trip time.. 1-1/4 hrs. washing 6720' to 6870' & 6850' to 6960'.. 1/2 hr. clean pits.. Totco at 6955' - 1 deg.
Oct. 19,	7131	(139'). Lime. Fishing. Mud 9.2, Visc. 30. 16-3/4 hrs. drlg. 4-1/4 hrs. trip time.. 1/2 hr. clean pits.. 1/2 hr. washing 6860' to 7010'. 2 hrs. trip out at 7131', twisted off at 4969', left 15 DC & 18 stands of 3-1/2" DP in hole. Preparing to run Bowen overshot with 5" slips.

STATE BT "J" #1

DATE 1950	DEPTH	REMARKS
Oct. 20,	7188	(57'). Drlg. Lime. Mud 9.8, Visc. 32. 6-1/2 hrs. ran Bowen overshot & recovered all of fish. 6-1/4 hrs. trip time. 9-3/4 hrs. drlg. 1 hr. washing 7050' to 7131' & 7125' to 7175'. 1/2 hr. rig repair. Totco at 7170' - 1 deg.
Oct. 21,	7320	(132'). Drlg. Lime. Mud 10, Visc. 36. 18-1/2 hrs. drlg. 4-3/4 hrs. trip time. 3/4 hr. cut off drlg. line.
Oct. 22,	7405	(85'). Drlg. Shale. Mud 9.0, Visc. 40, WL 23, Cake 3/32". 19 hrs. drlg. 4-1/2 hrs. trip time. 1/2 hr. washing 7340 to 7362'.
Oct. 23,	7481	(76'). Drlg. Shale. Mud 10.1, Visc. 42, WL 22, Cake 3/32". 20 hrs. drlg. 4 hrs. trip time.
Oct. 24,	7567	(86'). Drlg. Shale. Mud 9.8, Visc. 38, WL 20, Cake 3/32". 19-3/4 hrs. drlg. 4-1/4 hrs. trip time. Totco at 7540' - 1/2 deg.
Oct. 25,	7661	(94'). Drlg. Shale. Mud 9.9, Visc. 38, WL 22, Cake 3/32". 17-1/4 hrs. drlg. 5-1/4 hrs. trip time. 1 hr. washing 7603' to 7638'. 1/2 hr. ream 7622' to 7654'. Totco at 7650' - 1/2 deg.
Oct. 26,	7740	(79'). Drlg. Shale. Mud 9.9, Visc. 37, WL 25, Cake 3/32". 19-1/2 hrs. drlg. 4-1/2 hrs. trip time. Totco at 7722' - 3/4 deg.

STATE BT "J" #1

DATE 1950	DEPTH	REMARKS
Oct. 27,	7814	(74'). Drlg. Lime & Shale. Mud 10, Visc. 38, WL 26, Cake 3/32". 18-3/4 hrs. drlg. 3-3/4 hrs. trip time. 1 hr. washing 7697' to 7787'. 1/2 hr. rig repair. Totco at 7784' - 1 deg.
Oct. 28,	7877	(63'). Drlg. Shale. Mud 9.9, Visc. 42, WL 27, Cake 3/32". 17-1/2 hrs. drlg. 4-1/2 hrs. trip time. Measured DP at 7839', OK. 2 hrs. washing 7700' to 7839'. Totco at 7829' - 1 deg.
Oct. 29,	7942	(65'). Drlg. Shale & Lime. Mud 10, Visc. 44, WL 31, Cake 3/32". 14-1/2 hrs. drlg. 8-3/4 hrs. trip time. 3/4 hr. washing 7860 to 78' & 7900-22'. Totco at 7917' - 1/2 deg.
Oct. 30,	8034	(92'). Drlg. Lime & Shale. Mud 10, Visc. 45, WL 29, Cake 3/32". 19-3/4 hrs. drlg. 1/4 hr. washing 7965' to 7977'. Totco at 7953' - 1 deg.
Oct. 31,	8100	(66'). Drlg. Lime & Shale. Mud 10, Visc. 45, WL 25, Cake 3/32". 13-1/2 hrs. drlg. 9 hrs. trip time. 1/2 hr. washing 8020 to 8035' & 8056 to 8081'. 1 hr. rig repair. Totco at 8075' - 1/4 deg.
Nov. 1,	8181	(81'). Drlg. Lime & Shale. Mud 10, Visc. 44, WL 26, Cake 3/32". 19-1/4 hrs. drlg. 4-1/4 hrs. trip time. 1/2 hr. clean pits. Totco at 8108' - 1/4 deg.
Nov. 2,	8255	(74'). Drlg. Lime. Mud 10, Visc. 42, WL 29, Cake 3/32". 14-1/2 hrs. drlg. 8-3/4 hrs. trip time. 1/2 hr. washing 8215' to 8239'. 1/4 hr. clean pits. Totco at 8235' - 1/4 deg.

DATE 1950	DEPTH	REMARKS
Nov. 3,	8306	(51'). Lime & Chert. On trip. Mud 10, Visc. 44, WL 29, Cake 4/32". 17-1/4 hrs. drlg. 6-3/4 hrs. trip time. Left bearings, one cone & one piece of another cone in hole at 8278'. Ran Reed junk basket. Rec. 10 bearings on trip at 8306'. Reran junk basket. Totco at 8263' - 1/2 deg.
Nov. 4,	8312	(6'). Lime & Chert. On trip. Mud 10, Visc. 44, WL 28, Cake 4/32". 3-3/4 hrs. finish trip at 8306' with bit & Reed junk basket. 1/2 hr. washing 8291' to 8306'. 3-1/2 hrs. drlg. 3-1/4 hrs. trip out at 8310'. Left one cone & pin in hole. Rec. 14 bearings in junk basket. 6 hrs. round trip with Costin basket at 8310'. Rec. one cone. 2 hrs. trip in with bit & Reed junk basket. Drilled 2'. 2-1/2 hrs. trip at 8312'. Rec. pin & double handfull of junk.
Nov. 5,	8365	(53'). Drlg. Line. Mud 10.1, Visc. 40, WL 28, Cake 3/32". 16 hrs. drlg. 7-1/2 hrs. trip time. Rec. pin & junk at 8312'. Rec. 8 bearings at 8343' & laid down junk basket. 1/2 hr. rig repair.
Nov. 6,	8415	(50'). Lime. On trip. Mud 10, Visc. 44, WL 28, Cake 3/32". 15-3/4 hrs. drlg. 7 hrs. trip time. 1/2 hr. rig repair. 3/4 hr. cut off drlg. line. Totco at 8356' - 1/2 deg.
Nov. 7,	8474	(59'). Drlg. Lime. Mud 10, Visc. 45, WL 30, Cake 3/32". 15-3/4 hrs. drlg. 7-3/4 hrs. trip time. 1/2 hr. rig repair. Totco at 8450' - 1/4 deg.
Nov. 8,	8520	(46'). Drlg. Lime. Mud 10, Visc. 45, WL 36, Cake 4/32". 14-3/4 hrs. drlg. 8-3/4 hrs. triptime. 1/2 hr. rig repair. Totco at 8505' - 1/4 deg.

DATE 1950	DEPTH	REMARKS
Nov. 9,	8573	(53'). Lime. Making trip. Mud 10, Visc. 49, WL 32, Cake 3/32". 18-3/4 hrs. drlg. 5 hrs. round trip at 8541' with bit #69. 1/4 hr. making trip at 8573' with bit #70. Mixed 25 sx. Zeogel, 6 sx. Impermix.
Nov. 10,	8611	(38'). Drlg. Lime & Chert. Mud 10, Visc. 49, WL 32, Cake 4/32". 14-1/2 hrs. drlg. 9 hrs. trip time. 1/2 hr. reaming 8181 to 8591'. Totco at 8540' - 1/2 deg.
Nov. 11,	8652	(41'). Drlg. Lime. Mud 9.9, Visc. 50, WL 23, Cake 3/32". 12-3/4 hrs. drlg. 10-1/4 hrs. trip time. 1 hr. rig repair.
Nov. 12,	8712	(60') - Drilling lime. Mud 10, Visc 52, WL 22, Cake 3/32". 19 hrs drilling. 5 hrs trip time. Measured DP at 8683, OK.
Nov. 13,	8764	(52'). Drlg. Lime & Chert. Mud 10, Visc. 49, WL 23, Cake 3/32". 13-1/4 hrs. drlg. 10 hrs. trip time. 3/4 hr. cut off drlg. line. Totco at 8750' - 3/4 deg.
Nov. 14,	8815	(51'). Drlg. Lime. Mud 10, Visc. 48, WL 25, Cake 3/32". 12-3/4 hrs. drlg. 5-1/4 hrs. trip time. 6 hrs. rig repair.
Nov. 15,	8875	(60'). Drlg. Lime. Mud 10, Visc. 48, WL 23, Cake 3/32". 17 hrs. drlg. 6 hrs. trip time. 1 hr. repair brakes. Totco at 8825' - 3/4 deg.

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Nov. 16,	8895	(20'). Lime. On trip. Mud 10, Visc. 60, WL 16, Cake 3/32". 7-1/4 hrs. drlg. 2-1/4 hrs. circ. samples at 8890'. 2-3/4 hrs. trip out. 7-1/4 hrs. trips for & taking DST #1 from 8684' to 8890', 1 hr. & 40 min. test, 3-1/2" DP. Perfs. 8864 to 8887', 5/8" bottom & 1" top choke. Opened tool at 5 pm, good blow air for 10 mins. & died. Closed & reopened tool at 5:40 pm, good blow air for 5 mins. & died. Closed tool at 6:40 pm. Rec. 510' mud. No shows of oil, gas or water. Amerada Hyd. pr in 4545#, out 4500#, initial flow pr. 95#, final flow 250#, 1/4 hr. BUP 405#. 3 hrs. trip in at 8890'. 1/2 hr. circ. at 8890' & resumed drlg. 1 hr. on trip at 8895'.
Nov. 17,	8960	(65'). Drlg. Lime. Mud 9.9, Visc. 51, WL 17, Cake 3/32". 18-1/2 hrs. drlg. 5 hrs. trip. Bit ran at 8890', drilled only 5', bit was out of gauge, one cone was sprung. 1/2 hr. reaming 8890 to 8895'.
Nov. 18,	9029	(69'). Drlg. Lime. Mud 9.9, Visc. 49, WL 18, Cake 3/32". 16-3/4 hrs. drlg. 6 hrs. trip time. 1-1/4 hr. rig repair. Totco at 8925' - 3/4 deg.
Nov. 19,	9038	(9'). Drlg. Lime.. Mud 10, Visc. 47, WL 18, Cake 3/32". 9 hrs. drlg. 15 hrs. trips. Left 1/3 of cone & bearings in hole at 9030'. Ran Reed junk basket. Rec. 12 bearings at 9030' & 1/5 of cone & several small pieces of junk at 9031'. Reran junk basket.
Nov. 20,	9070	(32'). Lime. Running test tool. Mud 10, Visc. 49, WL 15, Cake 2/32". 12 hrs. drlg. 5-1/4 hrs. trip. Rec. 4 small pieces of junk & 3 bearings at 9047'. 2-1/2 hrs. trip out at 9070'. Rec. one bearing. 1-1/2 hrs. running test tool. Plan to test 8889' to 9070'.
Nov. 21,	9105	(35'). Lime. Circ. samples. Mud 10, Visc. 51, WL 15, Cake 2/32". 11 hrs. trips for & take DST #2 from 8889' to 9070', 4 hr. test, 3-1/2" DP, perfs. 9035-9067', 5/8" bottom & 1" top chokes. Opened tool at 8:05 am. Gas in 18 mins. Gas vol. 58,800 per da Steady throughout test. No fluid to surface. Closed tool at (Cont'd)

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Nov. 21, (Cont'd)		12:05 pm, rec. 900' of 50% gas cut mud. No shows of oil or water. Amerada Hyd. pr in 4705#, out 4550#, initial flow pr. 265#, final flow pr. 265#, 1/4 hr. BUP 1290#. 2-1/2 hrs. trip in at 9070'. Ran Reed junk basket. 3/4 hr. cut off drlg. line. 1/4 hr. cond. mud at 9070'. 8-3/4 hrs. drlg. 3/4 hr. circ. samples at 9105'.
Nov. 22,	9115	(10'). Lime. On trip. Mud 9.9, Visc. 50, WL 15, Cake 3/32". 1-1/2 hrs. circ. at 9105'. 2-1/4 hrs. drlg. 2-1/2 hrs. circ. samples at 9115'. 12-1/2 hrs. trips for & taking DST #3 from 9068 to 9115', 4 hr. test. 3-1/2" DP, perfs. 9068-69', & 9097-9110', 5/8" bottom & 1" top chokes. Opened tool at 7:40 pm, small blow air which continued throughout test. Closed tool at 11:40 pm. Rec. 105' mud, no shows of oil, gas or water. Amerada Hyd. pr in 4940#, out 4800#, initial flow pr. 50#. Final flow pr. 90#, 1/4 hr. BU 190#. 1-1/2 hrs. trip in at 9115'.
Nov. 23,	9197	(82'). Lime. On trip. Mud 10, Visc. 48, WL 17, Cake 3/32". 21-3/4 hrs. drlg. 2-1/4 hrs. trip.
Nov. 24,	9263	(66'). Lime. On trip. Mud 9.9, Visc. 49, WL 15, Cake 3/32". 18-1/2 hrs. drlg. 4-3/4 hrs. trip. 3/4 hr. motor repair. Totco at 9175' - 1-1/4 deg.
Nov. 25,	9346	(83'). Lime. On trip. Mud 9.9, Visc. 50, WL 14, Cake 2/32". 15 hrs. drlg. 5-1/2 hrs. trips. 3-1/2 hrs. mixing mud & lost circ. material at 9290'. Lost approx. 75 BM. Lost partial circ. Totco at 9260' - 1-1/2 deg.
Nov. 26,	9440	(94'). Lime. On trip. Mud 9.7, Visc. 48, WL 13.4, Cake 2/32". 19-1/4 hrs. drlg. 4-3/4 hrs. trip.

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DATE 1950	DEPTH	REMARKS
Nov. 27,	9450	(10'). Lime. Breaking down test tool. Mud 9.6, Visc. 56, WL 8, Cake 2/32". 5 hrs. finish trip at 9440'. 2 hrs. drlg. 3 hrs. circ. samples at 9450'. 2-3/4 hrs. trip out. 11-1/4 hrs. trips for & take DST #4 from 9350 to 9450', 4 hr. test, 3-1/2" DP, perfs. 9351' to 9352' & 9412-47', 5/8" bottom & 1" top chokes. Opened tool at 9:15 pm, good blow air which decreased to weak blow at end of test. Closed tool at 1:15 am. Rec. 1000' gas cut mud and 1080' gas cut salt water. No show of oil. Amerada hyd. in 4835#, out 4810#, initial flow pr. 135#, final flow pr. 865#, 1/4 hr. BUP 1360#.
Nov. 28,	9503	(53'). Drlg. Lime. Mud 9.9, Visc. 50, WL 13.2, Cake 2/32". 13-1/2 hrs. drlg. 10-1/2 hrs. trips. Totco at 9485' - 1-3/4 deg.
Nov. 29,	9574	(71'). Drlg. Lime. Mud 9.5, Visc. 48, WL 19, Cake 3/32". 17-1/2 hrs. drlg. 6 hrs. trip. Measured DP at 9530', OK. 1/2 hr. clean pits.
Nov. 30,	9612	(38'). Drlg. Lime. Mud 9.5, Visc. 49.8, WL 13.4, Cake 3/32". 12-1/4 hrs. drlg. 11-1/2 hrs. trips. 1/4 hr. clean pits. Totco at 9550' - 2-1/4 deg., at 9600' - 2 deg.
Dec. 1,	9650	(38'). Lime. Circ. to run Schl. Mud 9.7, Visc. 53, WL 20, Cake 3/32". 17 hrs. drlg. 5 hrs. trip. 2 hrs. circ. at 9650'. Totco at 9630' - 2-1/2 deg.
Dec. 2,	9679	(29'). Drlg. Lime. Mud 9.7, Visc. 48, WL 19, Cake 3/32". 3 hrs. trip out at 9650'. 7 hrs. running Schl. elect. log, gamma ray & micro log at 9650'. Schl. checked bottom at 9650'. 2-1/2 hrs. trip in at 9650'. 11-1/2 hrs. drlg. Totco at 9540' - 2 deg.

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Dec. 3,	9721	(42'). Drlg. Lime. Mud 9.7, Visc. 45, WL 20, Cake 3/32". 12-3/4 hrs. drlg. 10-1/2 hrs. trips. 3/4 hr. cut off drlg. line. Totco at 9675' - 1-3/4 deg., at 9710' - 1-1/2 deg.
Dec. 4,	9773	(52'). Lime. On trip. Mud 9.7, Visc. 44, WL 23, Cake 3/32". 18-3/4 hrs. drlg. 5-1/4 hrs. trip. Totco at 9740' - 2 deg.
Dec. 5,	9805	(32'). Drlg. Lime. Mud 9.6, Visc. 45, WL 26, Cake 3/32". 11 hrs. drlg. 11-1/2 hrs. trips. 1-1/2 hrs. mud line repair. Totco at 9795' - 2-1/4 deg.
Dec. 6,	9850	(45'). Lime. On trip. Mud 9.6, Visc. 45, WL 27, Cake 3/32". 16-3/4 hrs. drlg. 5-1/2 hrs. trip. 1-3/4 hrs. cleaned pit & rig repair. Totco at 9818' - 2 deg.
Dec. 7,	9906	(56'). Drlg. Lime. Mud 9.4, Visc. 47, WL 26, Cake 3/32". 12-1/2 hrs. drlg. 11-1/2 hrs. trips. Totco at 9890' - 1-3/4 deg.
Dec. 8,	9978	(72'). Drilling lime. Mud 9.5, Visc. 46, WL 26, Cake 4/32". 17-3/4 hrs. drlg. 5-3/4 hrs. trip. 1/2 hr. clean pits. Totco at 9962' - 2-3/4 deg.
Dec. 9,	10011	(33'). Lime.. On trip. Mud 9.6, Visc. 45, WL 28.1, Cake 3/32". 15-1/4 hrs. drlg. Reached 10,000' at 8:55 pm 12-8-50. 8-1/2 hrs. trips. Measured DP at 9993', OK. 1/4 hr. reaming 9983'-93'. Totco at 9992' - 2-1/4 deg.

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Dec. 10,	10043	(32'). Drlg. Lime & Chert. Mud 9.7, Visc. 44, WL 28, Cake 3/32". 12-1/2 hrs. drlg. 9-1/2 hrs. trips. 3/4 hr. cut off drlg. line, 1-1/4 hrs. rig repair. Totco at 10028' - 2-3/4 deg.
Dec. 11,	10086	(43'). Lime. On trip. Mud 9.5, Visc. 45.5, Cake 3/32", WL 25.8. 15-1/4 hrs. drlg. 8 hrs. trips. 3/4 hr. clean pits.
Dec. 12,	10104	(18'). Drlg. Lime. Mud 9.5, Visc. 44, WL 24, Cake 3/32". 9-1/2 hrs. drlg. 2-1/2 hrs. trip. 12 hrs. weld groove line guide on drum.
Dec. 13,	10146	(42'). Drlg. Lime. Mud 9.6, Visc. 44, WL 26, Cake 3/32". 15-3/4 hrs. drlg. 8-1/4 hrs. trips. Totco at 10100' - 2-1/2 deg.
Dec. 14,	10172	(26'). Lime. On trip. Mud 9.5, Visc. 48, WL 23, Cake 3/32". 9-1/2 hrs. drlg. 5-1/4 hrs. trip at 10147', bit bridge at 7717', then pulled out. 5-3/4 hrs. round trip at 10147'. Ran Reed junk basket, left Dowell pin from bit in hole. 3-1/2 hrs. making trip at 10172', bit #117, no rec. Laid down junk basket. Totco at 10140' - 2-1/2 deg.
Dec. 15,	10221	(49'). Drlg. Lime. Mud 9.6, Visc. 46, WL 24, Cake 3/32". 17-1/4 hrs. drlg. 6-3/4 hrs. trips. Totco at 10204' - 2-3/4 deg.
Dec. 16,	10266	(45'). Lime. On trip. Mud 9.4, Visc. 49, WL 30, Cake 4/32". 17-3/4 hrs. drlg. 6-1/4 hrs. trips. Totco at 10240' - 2-1/2 deg.

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DATE 1950	DEPTH	REMARKS
Dec. 17,	10305	(39'). Drlg. Lime. Mud 9.8, Visc. 48, WL 22, Cake 3/32". 12-1/2 hrs. drlg. 11-1/2 hrs. trips. Totco at 10290' - 2-3/4 deg.
Dec. 18,	10369	(64'). Drlg. Lime. Mud 9.7, Visc. 49, WL 24, Cake 3/32". 17-3/4 hrs. drlg. 5-3/4 hrs. trip. 1/2 hr. cut off drlg. line. Totco at 10330' - 3 deg.
Dec. 19,	10408	(39'). Drlg. Lime. Mud 9.6, Visc. 49, WL 24, Cake 3/32". 12-3/4 hrs. drlg. 11-1/4 hrs. trips. Totco at 10392' - 3-1/4 deg. Running 11 drill collars, 18,000# wt
Dec. 20,	10449	(41'). Lime. On trip. Mud 9.7, Visc. 50, WL 23, Cake 2/32". 18-1/4 hrs. drlg. 5-1/4 hrs. trips. 1/2 hr. rig repair. Totco at 10427' - 3-1/2 deg.
Dec. 21,	10475	(26'). Drlg. Lime. Mud 9.7, Visc. 49, WL 20, Cake 3/32". 13 hrs. drlg. 10-1/2 hrs. trips. 1/2 hr. rig repair. Totco at 10468' - 4 deg.
Dec. 22,	10494	(19'). Lime. On trip. Mud 9.5, Visc. 50, WL 21, Cake 3/32". 13 hrs. drlg. - Running 15,000# wt & 60 RPM. 9-1/2 hrs. trips. 3/4 hr. reaming 10470 to 10482'. 3/4 hr. cleaning pits. Totco at 10481' - 4 deg., at 10495' - 4 deg.
Dec. 23,	10524	(30'). Drlg. Lime. Mud 9.6, Visc. 50, WL 21, Cake 3/32". 16-1/2 hrs. drlg. 7-1/2 hrs. trips. Running 15,000# wt & 60 RPM. Totco at 10508' - 4 deg.

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Dec. 24,	10551	(27'). Lime. On trip. Mud 9.5, Visc. 55, WL 18, Cake 3/32". 13-1/4 hrs. drlg. 9-3/4 hrs. trips. Measured DP at 10528' equaled 10530', 2' corr. 1/2 hr. cut off drlg. line. 1-1/2 hrs. clean pits. Totco at 10527' - 3-1/2 deg.
Dec. 25,	10563	(12'). Lime. On trip. Mud 9.6, Visc. 73, WL 21, Cake 3/32". 5-1/2 hrs. drlg. 5 hrs. trips. 13-1/2 hrs. shut down for Christmas.
Dec. 26,	10580	(17'). Lime. On trip. Mud 9.6, Visc. 49, WL 22, Cake 2/32". 10-1/2 hrs. shut down for Xmas. 2 hrs. start engine & connect water & mud lines. 5 hrs. trips. 6-1/2 hrs. drlg. Totco at 10562' - 3-1/4 deg.
Dec. 27,	10607	(27'). Drlg. Lime. Mud 9.5, Visc. 51, WL 22, Cake 3/32". 10-3/4 hrs. drlg. 11-3/4 hrs. trips. 3/4 hr. clean pits. 3/4 hr. cut off drlg. line. Totco at 10596' - 3-1/2 deg.
Dec. 28,	10641	(34'). Lime. On trip. Mud 9.6, Visc. 57, WL 23, Cake 3/32". 17-1/4 hrs. drlg. 6-1/4 hrs. trips. 1/2 hr. rig repair.
Dec. 29,	10665	(24'). Drlg. Lime & Chert. Mud 9.6, Visc. 53, WL 23, Cake 3/32". 6-1/2 hrs. drlg. 13-1/4 hrs. trips. 2-1/4 hrs. reaming 10606 to 10641'. 2 hrs. clutch repair. Totco at 10635' - 2-1/4 deg.

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Dec. 30,	10706	(41'). Lime. On trip. Mud 9.6, Visc. 50, WL 25, Cake 3/32". 17-3/4 hrs. drlg. 6-1/4 hrs. trips. Totco at 10679' - 2-1/2 deg.
Dec. 31,	10733	(27'). Lime. On trip. 8 hrs. drlg. 15-3/4 hrs. trips. 1/4 hr. ream 10701' to 10706'. On trip at 10733', pulled & replaced bit. Totco at 10,730' - 2-1/4 deg.
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Jan. 1,	10773	(40'). Drlg. Lime. Mud 9.7, Visc. 49, WL 22, Cake 3/32". 12-1/4 hrs. drlg. 11 hrs. trips. 3/4 hr. cut off drlg. line.
Jan. 2,	10818	(45'). Lime. On trip. Mud 9.7, Visc. 50, WL 23, Cake 3/32". 16 hrs. drlg. 7-1/2 hrs. trips. 1/2 hr. reaming 10781' to 10789'. Totco at 10787' - 2-1/2 deg.
Jan. 3,	10854	(36'). Drlg. Lime. Mud 9.5, Visc. 45, WL 21, Cake 3/32". 11-3/4 hrs. drlg. 12-1/4 hrs. trips. Totco at 10843' - 2-3/4 deg.
Jan. 4,	10881	(27'). Lime. On trip. Mud 9.5, Visc. 50, WL 18, Cake 3/32". 13 hrs. drlg. 10 hrs. trips. 1 hr. reaming 10850' to 10862'.
Jan. 5,	10919	(38'). Drlg. Lime. Mud 9.6, Visc. 51, WL 11, Cake 3/32". 13-1/4 hrs. drlg. 9 hrs. trips. Laid down bottom hole reamer & ran Reed junk basket at 10915'. 1-3/4 hrs. circ. samples at 10915'. Totco at 10912' - 2-3/4 deg.

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Jan. 6,	10926	(7'). Reaming with 7-3/8" core bit at 10925'. Mud 9.6, Visc. 56, WL 13, Cake 2/32". 2-1/4 hrs. drlg. 2 hrs. circ. at 10,921'. 3-1/4 hrs. trip out. Measured DP at 10921' equaled 10926', 5' correction.. 4-1/4 hrs. trip in with 6-3/4" core bbl. & 7-3/8" X 4" core bit #J-1640, type 254, B012-A, 260.47 carat wt. Hit tight hole at 8545'. 12-1/4 hrs. reaming 8545' to 10625'. Reamed as follows: 8545 to 8635'. Open hole 8635 to 9265'. Reamed 9265 to 10085'. Open hole 10085' to 10355'. Reaming 10355' to 10625'.
Jan. 7,	10946	(Cored 20'). Coring Lime & Shale. Mud 9.6, Visc. 60, WL 10, Cake 2/32". 7-1/2 hrs. reaming from 10635' to 10926'. 1 hr. circ. at 10926'. 15-1/2 hrs. coring. Started cutting core #1 at 10926', running 15,000# wt & 48 RPM with 750# pump pr. Avg. coring time 50 mins. per ft.
Jan. 8,	10968	(Cored 22'). Shale. On trip with core bbl. Mud 9.6, Visc. 80, WL 7, Cake 2/32". 16-1/2 hrs. cutting core #1 from 10926 to 10968', avg. coring time 45 mins. per foot. 1/2 hr. circ. at 10968'. 5 hrs. trip out with core #1, 100% rec. Core head in good cond. 1 hr. WO orders. 1 hr. trip in hole with diamond bit #2074, type 1003, B-12-B, FD, 267.45 carat wt.
Jan. 9,	10998	Cored 30'. Lime. Out of hole with core #3. Mud 9.6, Visc. 81, WL 8.2, Cake 3/32". 3-1/2 hrs. finish trip in at 10968'. 1-1/4 hrs. rig repair. 2-3/4 hrs. reaming 10928' to 10968'. 12 hrs. cutting core #2 from 10968 to 10998'. 1 hr. circ. at 10998'. 3-1/2 hrs. trip out at 10998 with core #2, 100% rec.
Jan. 10,	11027	Cored 29'. Coring Lime. Mud 9.8, Visc. 80, EL 9, Cake 2/32". 1 hr. cut off drlg. line. 2 hrs. WO orders at 10998'. 4-1/2 hrs. trip in at 10998' with core bit #J-1640, type 254, B-12-A, 260.47 carat wt. 1/2 hr. circ. at 10998'. 16 hrs. cutting core #3 from 10998' to 11027', coring time 22 to 30 mins. per ft.

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Jan. 11,	11051	Cored 24'. Lime & Chert. Coring. Mud 9.6, Visc. 80, WL 8.5, Cake 2/32". 6-1/2 hrs. cutting core #3 from 10998' to 11040'. 1 hr. circ. at 11040'. 5 hrs. pull core #3, 100% rec. 1 hr. WO orders. 3 hrs. trip in at 11040' with diamond core bit #F-2074, type 1003, B-12-B, 260.45 carat wt. 2-1/2 hrs. reaming from 10998' to 11040'. 5 hrs. cutting core #4 from 11,040 to 11,051', avg. coring time 28 mins. per ft.
Jan. 12,	11082	Cored 31'. Lime. Trip in with core bbl. Mud 9.7, Visc. 80, WL 8, Cake 2/32". 17 hrs. finish cutting core #4 from 11040 to 11082', avg. coring time 33 mins. per ft. 1 hr. circ. at 11082'. 4 hrs. pull core #4, 100% rec. 1 hr. WO orders. 1 hr. trip in at 11082' with diamond bit #J-1640, type 254, B-12-A, 260.47 carat wt.
Jan. 13,	11099	Cored 17'. Lime. Taking DST #5. 25 hr. report. Mud 9.7, Visc. 75, WL 8, Cake 2/32". 3-1/2 hrs. finish trip in with core bbl. at 11082'. 9-1/2 hrs. cutting core #5 from 11082' to 11099'. 1 hr. attempting to unplug core bit at 11099'. 1 hr. circ. at 11099'. 4-1/2 hrs. pull core #5, 100% rec. Core bit head was plugged with fine formation but was in good cond. 5-1/2 hrs. trips for & take DST #5 from 10990 to 11099', 3-1/2" DP used 2070' water blanket, perfs. 11080 to 11094', 5/8" bottom & 1" top chokes. Opened tool at 5:50 am, weak blow of air, for 8 mins. & died. Tool still open this am.
Jan. 14,	11118	Cored 19'. Lime. Coring. 23 hr. report. Mud 9.7, Visc. 72, WL 9.8, Cake 2/32". 5 hrs. finish DST #5 from 10990 to 11099', 1 hr. & 25 min. test, 3-1/2" DP, closed & reopened tool at 7:10 am, few bubbles air & died. Closed tool at 7:15 am. Rec. 2070' water blanket & 180' mud. No show of oil, gas or water. Amerada Hyd. in 5720#, out 5465#, flow pr. 935# to 960#, 1/4 hr. BU 1135#. 3/4 hr. WO order. Left 1/2 of one packer rubber in hole. 5 hrs. trip in at 11099' with diamond bit #F-74, type 1003, B-12-B, 257.45 carat wt. 3-1/4 hrs. reaming 10990 to 11099 & drlg. up packer rubber. 9 hrs. coring. Started cutting core #6 at 11099'.

STATE BT "J" #1

<u>DATE 1951</u>	<u>DEPTH</u>	<u>REMARKS</u>
Jan. 15,	11140	Cored 22'. Lime. Taking DST #6. Mud 9.7, Visc. 70, WL 9, Cake 2/32". 12 hrs. finish cutting core #6 from 11099 to 11140'. 1-1/2 hrs. circ. at 11140'. 5 hrs. pull core #6, 100% rec. Core head in good cond. 5-1/2 hrs. trips for & taking DST #6 from 11097' to 11140', 3-1/2" DP, perfs. 11097 to 11098 & 11130 to 11135', used 2070 ft of water blanket, 5/8" bottom & 1" top chokes, opened tool at 4:05 am, fair blow of air, decreasing to small blow at 5 am 1-15-51.
Jan. 16,	11140	(0'). T. Lime. Running Schl. survey. 7 hrs. finished taking DST #6 from 11097 to 11140', 4 hr. test test, 3-1/2" DP, fair blow of air continued throughout test, closed tool at 8:05 am. Rec. 2,070 water blanket & 5115' salty sulphur water. No shows of oil or gas. Amerada Hyd. in 5645#, out 5550#, initial flow pr. 1190#, final 3255#, 1/4 hr. BU 3605# 1 hr. lay down core bbl. 1/2 hr. clutch repair. 3-1/2 hrs. trip in at 11140' with bit. 3/4 hr. drill up packer rubber. 1 hr. circ. at 11140'. 3-1/2 hrs. trip out at 11140'. Measured DP, no corr. 6-3/4 hrs. running Schl. elect survey. Started running gamma ray survey & instrument failed. Getting another instrument from Hobbs. Schl. checked bottom at 11138'.
Jan. 17,	11140	TD. No footage Drlg. Lime. Plugging to abandon. 2-1/2 hrs. finished running Schl. & gamma ray surveys. 5 hrs. trip in at 11140' with open-ended DP. 2-1/2 hrs. circ. at 11140'. 4-1/2 hrs. spot plugs as follows: 35 sx. Regular cement from 11,140 to 11,010', 35sx. regular cement from 8830 to 8700' & 25 sx. regular from 3930 to 3843'. 9 hrs. laying down DP. 1/2 hr. spot 25 sx. Regular cement from 1430 to 1348' at 5 am 1-17-51.
Jan. 18,		Plugged & abandoned. TDT. 3/4 hr. laying down DP. 6 hrs. removing BOP & drlg. connections. McMullough shot off 8-5/8" csg. at 415'. 3-1/4 hrs. pull 18 jts., 501' of 8-5/8" OD 36# 8 RT J-55 R-2 smls. csg. Csg. in good condition. 1-3/4 hrs. spot 50 sx. Regular cement from 350 to 288' & 10 sx. in top of 13-3/8" surface csg. Rig released at 4 pm 1-17-51. 12-1/4 hrs. TDT to skid to Mathers #2.

STATE BT "J" #1

DA	DATE 1951	DEPTH	REMARKS
	Jan. 19,	11140	TD. P & A. 2 crews 8 hrs. TD. Finished at 4 pm 1-18-51. Derrick ready to skid to W. E. Mathers #2.
	Jan. 20,		Skidded derrick to W. E. Mathers #2 1-19-51. Moving out tools.

Received
Hobbs
OGG