



PLAINS EXPLORATION COMPANY

Denver 2, Colorado

SCANNED

Completion Report - - - - - Mitchell #1

Location: SE SE Sec. 20 - 2N - 54W, Washington County, Colorado

Elevation: 4519' K.B.
4510' G.L.R. T. D. 4929' (-410')
C. T. T. D. 4899' (-380)
P. B. T. D. 4899' (-380)Casing: 8 5/8" set at 102' with 90 sacks cement.
4 1/2" set at 4926' with 125 sacks cement.

Perforations: 12 holes 4815' to 4817'.

Comm. Drlg. w/r 2/18/60
Comm. Drlg. w/c.t. 2/25/60Compl. w/r 2/24/60
Compl. w/c.t. 3 5/60Rotary Drilling Contractor: Exeter Drilling Co.
Cable Tool Drilling Contractor: Denver Drilling Co.Top of D-Sand- Log Top.- 4790' (-271) Sample Top - 4789'
Top of J-Sand- Log Top.- 4882' (-363) Sample Top - 4877'

Kelly Bushing 10.85' above top of Braden Head.

CABLE TOOL COMPLETION

- Feb. 25, 1960 Denver Drilling Company moved in 3-drum Walker-Neer spudder. Dug ice and frozen mud out around casing. (5-hours rig time)
- Feb. 26, 1960 No work. W.O.C.
- Feb. 27, 1960 Rigged up unit. Dried up hole with swab and bailer, strung in sand-line. T.D. showed 4894' from K.B. K.B. 10.85' above top of Braden Head.
- Feb. 28, 1960 Dry check hole with bailer. Ran Lane-Wells P.F.C. log only. Showed to be 4898' but reset to 4896' to match tops of formations with E. log. Log from 4895' or 1' off bottom to 4400'.
- Fired 2 shots at 4816+ by P.F.C. log at 11:30 a.m. No live oil show on gun, possibly some mud and water blow back. At 11:55 a.m. got approximately 4 gal. muddy water with foam showing brownish and possible spots of broken oil. At 12:20 noon got 6 gal. of water with some spots of free live oil and live oil showing about 25' up on outside of bailer. No gas to surface but show of hole filling with fluid or making a little gas. At 12:55 noon fired 12 shots from 4815' to 4817'. Increase of fillup or gas while shooting the above 12 shots. By end of shooting good movement out of casing and odor of gas to surface at 1:00 p.m. Ran bailer to approximately 3000' but had no fluid. Measured gas, by 5:10 p.m. measurements show well making about 260 M.C.F.P.D. Left well open into pit overnight.
- Feb. 29, 1960 Spray of gas showing brownish and by taping fluid in bucket indicated well making about 1/2 bbl. per hour estimated at 30% water.

Tried to re-log with P.F.C. to show where perforations are but tool would not go through perforations. Ran bit to clear burrs. P.F.C. tool would not go. Ran collar locator only and logged collars and perforations. Perforations showed to be as shown above. Well flowed 2 to 3 bbls. of fluid while running tools in and out of hole. Fluid estimated to be 30 to 40% water. Connected well to test tank and left overnight.

CABLE TOOL COMPLETION

Mitchell "B" #1

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March 1, 1960

Jelled oil and ice in tank made it necessary to estimate T.F. and water per cent. But by timing flow in bucket and grinding out fluid it was estimated that well was now making about 1 bbl. fluid per hour 15 to 20% water and measured 425 M.C.F.G.P.D.

Had tools and packer rigged up for squeeze job. Decided to test well for a day or two. Ran swab to perforations and got about 10 bbls. of fluid and by grind out samples showed 15 to 18% water. Connected well to test tank at 2:00 p.m. and left open overnight.

March 2, 1960

Well flowed approximately 20 bbls. in 18 hours, plus what fluid is building up in hole. If like yesterday could be 10 to 12 bbls. Sample from draw off on tank by grind out shows 18% water and sample from flow shows 10% water. No gas measurement taken.

March 3, 1960

Gauge shows a gain of 22" or approximately 26 bbls. in 24 hours. Grind out from sample taken from flow shows 13% water, sample from draw off on tank show 14% water. Measurement shows gas at 470 M.C.F.P.D. Well seems to be flowing a steady brown spray.

March 4, 1960

Gauge shows a gain of 23" or 27 bbls. T.F. flowed in approximately 24 hours.

Last trip in hole by Lane-Wells checked with pickup on sand-line that some cement had been picked up by bailer and T.D. now shows to be 4899' from K.B. Ran swab to perforations, put 5.13 bbls. in test tank, drying up hole to run tubing without killing well.

RECORD OF MATERIAL

Used 2" EUE 8rd thrd. tubing, came from Logan County, Colorado. Ran a 19.18' jt. bull-plugged by welder and a 31.85' and 31.80' jts. as anchor, then 3' perforated sub and a 1' new National seating nipple. Then 152 jts. of tubing, a 6' - 8' and a 10' tubing sub. Subs in hole as listed. A total of 154 jts. a bull-plugged anchor, 3' perforated sub, 1' seating nipple, a 6' - 8' and 10' sub used in tubing string. A total of 4884.33' less 28.00' for perforated nipple, seating nipple and subs, then plus 25.66' for threads. Tubing over all = 4881.99' used.

Left on location 12 jts. tally showing 376.15' plus 2' for threads = 378.15' overall left on location.

March 5, 1960

Well connected and left flowing into test tank.

E. E. Duncan, March 5, 1960

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BIT RECORD

<u>No</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>From - To</u>	<u>Footage Drilled</u>	<u>Hours Run</u>	<u>Condition</u>	<u>Remarks</u>
1	CP	7 7/8	ESICJ	120 - 3515	3395	20	Dull	
2	CP	"	ESIC	3515 - 4502	987	11	Dull	
3	Hughes	"	OSC-3	4502 - 4800	298	8	Dull	Pulled to Core
*	Diamond	6 5/8	Core	4800 - 4852	52	9	Not Hurt	
4	Hughes	7 7/8	OWV	4800 - 4889	89	5	WO	Reamed 52'
5	CP	"	EMIV	4889 - 4925	36	5	WO	

MUD RECORD

<u>Date</u>	<u>Depth</u>	<u>Wt</u>	<u>Vis</u>	<u>St. Vis</u>	<u>Gel. Strength</u>		<u>pH</u>	<u>Water Loss in cc</u>	<u>Wall Cake in 32nds</u>	<u>Tester</u>
2/20/60	4227	9.7	35	16	0	0	9.5	7.6	2	Plains Mud Co.
2/21/60	4785	9.9	75	36	1	12	9.5	5.6	2	" " "