

AUSTRAL OIL COMPANY

INCORPORATED

WELL HISTORY

WELL: Austral Oil Company Incorporated, Huerfanito (6213) #2-34

FIELD: Huerfanito

DRILLING BLOCK: 62-13 AFE NO.: 63-105

LOCATION: 1,850' from the North line and 1,500' from the East line of Section 34, T-27-N, R-9-W, San Juan County, New Mexico

ELEVATION: GL: 6,433'
KDB: 6,444'

DRILLING CONTRACTOR: Pico Drilling Company, Breckenridge, Texas

DRILLING SUMMARY:

3-12-63 Well spudded 10 P.M.

3-13-63 Set 11 joints of 8-5/8" surface casing at 348'.

3-29-63 Reached TD 6,923'. Ran logs.

3-30-63 Set 216 joints of 4-1/2" production casing at 6,915'.

4-1-63 Cleaned out hole to PBTD 6,886'. Displaced hole w/salt water.

4-2-63 Perforated 6,644-650' & 6,662-667', 6,723-57', 6,794-813', 6,819-29' and 6,846-78' (ES) w/2 jets/foot. Acidized as follows:

<u>Interval</u>	<u>Acid</u>	<u>Initial Press.</u>	<u>Final Press.</u>
6,846-878'	125 Gals. MSA	2,900#	1,800#
6,794-813' & 6,819-829'	125 Gals. MSA	2,600#	1,300#
6,723-657'	125 Gals. MSA	1,000#	400#
6,644-650' & 6,622-667'	125 Gals. MSA	2,600#	700#

4-3-63 Fractured well w/94,400 gals. of water, 99,500# of sand, and 40 tons of CO₂. Dropped 35 balls. Average injection rate of 36.2 B/min. unloaded well on a 6" line.

4-4-63 Ran 213 joints of 2-1/16" tubing w/bottom at 6,603'. Flowed well.

4-5-63 Rig released 3 P.M.

4-10-63 Well not flowing as anticipated. Pico rigged up.

4-11-63 Killed well w/salt water. Pulled tubing to clean out sand from 6,785-886'.

4-12-63 Found top of solid sand at 6,785'.

4-13-63 Cleaned out sand to PBTD 6,886'. Re-ran tubing w/bottom at 6,603' (No packer)

4-14-63 Rig released 8:30 A.M.

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CASING RECORD:8-5/8" SURFACE CASING

1	8-5/8" Larkin guide shoe, 8R	1.92
<u>11 Jts.</u>	8-5/8", 24#, J-55 casing, ST&C, 8R	332.08
11 Jts.		334.00
	Top of casing to KDB	13.65
	Casing set w/respect to KDB at	347.65

Set casing in a 12-1/2" hole and cemented w/250 sacks common cement w/2% HA-5. Job completed 9:30 P.M., 3-13-63.

4-1/2" PRODUCTION CASING

1	4-1/2" Larkin guide shoe, 8R	1.56
1 Jt.	4-1/2", 10.5#, J-55 casing, ST&C, 8R	31.60
1	4-1/2" Larkin float collar, 8R	1.25
43 Jts.	4-1/2", 10.5#, J-55 casing, ST&C, 8R	1,365.75
18 Jts.	4-1/2", 9.5#, J-55 casing, ST&C, 8R	578.43
1	4-1/2", HOWCO DV tool, 8R	2.04
79 Jts.	4-1/2", 9.5#, J-55 casing, ST&C, 8R	2,533.61
1	4-1/2", HOWCO DV tool, 8R	2.04
<u>75 Jts.</u>	4-1/2", 9.5#, J-55 casing, ST&C, 8R	2,401.86
216 Jts.		6,918.14
	Less casing above zero	- 3.14
	Casing set w/respect to KDB at	6,915.00

Set casing in a 7-7/8" hole and cemented in three stages.

1st Stage: Cemented bottom section w/300 sacks common cement plus 300 sacks of Dia-mix A cement w/2% CaCl. plus 1/8# of Cello Flake/sack preceded by 10 bbls. of J-22.

2nd Stage: Cemented through DV tool at 4,946' w/72 sacks of Type "C" cement plus 72 sacks of Dia-mix A cement w/1/4 cu. ft. of STRATA crete #6/sack plus 1/8# cello flake/sack preceded by 10 bbls. of J-22.

3rd Stage: Cemented through DV tool at 2,412' w/123 sacks Type "C" cement plus 123 sacks Dia-mix A cement w/1/4# cu. ft. Strata crete #6/sack plus 1/8# cello flake/sack preceded by 10 bbls. J-22.

Job completed 8:50 A.M., 3-31-63. Good returns throughout. Tested casing to 1,500#, held OK.

2-1/16" TUBING

1	2-1/16" pump-out plug nipple w/coupling, 10R	0.67
1 Jt.	2-1/16", 3.3#, V-50 tubing, 10R	30.95
1	2-1/16", Type "S" Position #1 seat nipple, 10R	1.10
<u>212 Jts.</u>	2-1/16", 3.3#, V-50 tubing, 10R	6,558.53
1	2-1/16", Tubing sub, Double pin, 10R	0.80
213 Jts.		6,592.05
	Top of tubing to KDB	11.00
	Bottom of tubing w/respect to KDB at	6,603.05

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Well History

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CORING RECORD: There were no cores taken from this well.

DRILL STEM TESTS: There were no drill stem tests run on this well.

<u>LOGGING RECORD:</u>	<u>Company</u>	<u>Interval</u>	<u>Date</u>
#1	Schlumberger I-ES	355-6,923'	3-29-63
#1	McCullough Gamma-Ray Log	4,000-6,885'	4-1-63
#1	McCullough Cement Bond Log	4,450-6,880' 1,200-2,700'	4-1-63
#1	Schlumberger Sonic Log	4,450-6,916'	3-29-63

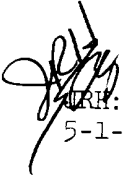
COMPLETION RECORD: Reached TD 6,923' on 3-29-63 and ran logs. Set 4-1/2" production casing at 6,915'. Cleaned out well to FBTD 6,886'. Perforated 6,446-650', 6,622-667', 6,723-657', 6,794-813', 6,819-829' and 6,846-878' (ES) w/2 jets/foot. Acidized and fraced well. Ran 2-1/16" tubing for completion w/bottom at 6,603'. (No packer) Flowed well at a rate of 1,520 MCF/day w/700# FTP. Rig released 3 P.M., 4-5-63.

On 4-10-63 rigged back up to clean out sand which had plugged off lower perforations. Rig released 8:30 A.M. 4-14-63.

On 4-22-63, a 3 hour State potential test was run after recording a 7 day SITP of 1,492#. Flowed well at a rate of 3,752 MCF/D w/ 299# FTP on a 3/4" choke, and casing pressure was 948#.

Calculated absolute open flow potential was 5,555 MCF/D.

On 4-25-63, a BHP of 1,864# was recorded.


JRH: ruc
5-1-63

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