

ANDERSON-PRICHARD OIL CORPORATION



DISTRICT IV FIELD OFFICE

SUITE B-400, NEW U. S. NATIONAL BANK BUILDING

1740 BROADWAY

DENVER, COLORADO

PHONE KEYSTONE 4-1849

GENERAL OFFICE
LIBERTY BANK BLDG.
OKLAHOMA CITY 2, OKLAHOMA

January 17, 1957

Our File:
DNM-8-E

U. S. Geological Survey
P. O. Box 965
Farmington, New Mexico

Subject: #1 Heirs of Ko-sa
C NW SW Section 23-25N-11W
San Juan County, New Mexico

Attention: Mr. P. T. McGrath

Dear Mr. McGrath:

We are enclosing herewith in duplicate Log of Oil or Gas Well (Form 9-330), as well as one copy each of the radioactivity log and temperature survey on the subject well. It is our understanding that Schlumberger Well Surveying Corporation has furnished your office copies of the electric logs.

We believe this completes the reports required by your office on this particular well.

Yours very truly,

ORIGINAL SIGNED BY
KARL A. BASHARA

KARL A. BASHARA
District Superintendent

Encl.

cc -- New Mexico Oil Conservation Commission, 120 East Chaco, Aztec, N. M.
C M & W Drilling Co., 1340 South Santa Fe, Denver, Colorado
Sun Oil Company, Denver Club Building, Denver, Colorado
Arrowhead Exploration Co., Mile High Center, Denver, Colorado
Boyd Moffatt, Oklahoma City, Office
Jaye F. Dyer

rw



ANDERSON-PETERSON OIL CORPORATION



District IV Field Office

Room 1100, 12th Street, Denver, Colorado

1700 Broadway

Denver, Colorado

Phone Ritz 1-1110

General Office

Liberty Bank Bldg.

Oklahoma City, Oklahoma

Jan 17, 1937
JAN-5-4

January 17, 1937

U. S. Geological Survey
P. O. Box 285
Washington, D. C.

Subject: 1. Title of Report

2. No. of Section 23-25-11-11
San Juan County, New Mexico

Attention: Mr. E. F. McGowan

Dear Mr. McGowan:

We are enclosing herewith in duplicate log of Oil or Gas Well (Sect 2-330), as well as one copy each of the radioactivity log and temperature survey on the subject well. It is our understanding that Schlumberger Well Surveying Corporation has furnished your office copies of the electric logs.

We believe this completes the reports required by your office on this particular well.

Yours very truly,

Very truly yours,

Very truly yours,

EARL A. BASHARA

District Superintendent

Enc.

cc - New Mexico Oil Conservation Commission, 120 West El Paso, Santa Fe, N. M.
O. M. & W. Drilling Co., 1240 South Santa Fe, Denver, Colorado
San Oil Company, Denver Club Building, Denver, Colorado
Anschutz Exploration Co., 1115 17th Street, Denver, Colorado
Rory Kottatt, Oklahoma City, Office
Lyle F. Dyer



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

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.

Date January 17, 1957 Title District Superintendent

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

Commenced drilling November 7, 1956 Finished drilling November 24, 1956.

(Denote gas by G)

No. 1, from 4946 to 4965 No. 4, from to
No. 2, from 4972 to 4988 No. 5, from to
No. 3, from G R measurements to No. 6, from to

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

U.S. DIST. CT. DIST. 3

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32.75	8 rd		197		5052			
5-1/2	14	8 rd	Long Star	5068	Diff. But	5052	1916	1963	Prod.
							1972	1988	
						Above perf.	U. N. measurements		
HYDROLYSE OF OIL ON CVD ALFF									

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	205	190 sacks	Halliburton	---	
5-1/2	5052	200 sacks	Halliburton	100	

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

Rotary tools were used from Surface feet to TD feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

-----, 19----- Put to producing -----, 1956

The production for the first 24 hours was 300----- barrels of fluid of which 100-% was oil; ----% emulsion; ----% water; and ----% sediment. Gravity, °Bé. 38.5-----

If gas well, cu. ft. per 24 hours GOR 1042/1 ----- Gallons gasoline per 1,000 cu. ft. of gas -----
Rock pressure, lbs. per sq. in. 1605 -----

_____, Driller _____, Driller
_____, Driller _____, Driller

FROM—	TO—	TOTAL FEET	FORMATION
Refer to electric log			Pictured Cliffs 1304
			Mesaverde 2054
			Point Lookout 3775
			Mancos 3925
			Gallup 4840
FROM	TO	TOTAL FEET	FORMATION

NAME OF WELL: #1 Hairs of Ko-sa

LOCATION: NW SW Section 23-25N-11W, San Juan County, New Mexico
(1980' FSL, 720' FWL)

ELEVATION: 6471.8 GL, 6481 KB

1956

11/5 and 6 Leveling location and building roads.

11/7 Moving in and rigging up rotary tool.

11/8 Spudded at 9:30 A.M. 11/7. Drilled 15" hole to 205'. Ran 7 jts. 10-3/4" OD 32.75 EWSTC casing, 188' overall, landed at 197' KB measurement, cemented w/ 190 sax regular cement w/2% calcium chloride. PD at 8:30 P.M. 11/7.

11/9 ø 1460.

11/10 ø 2205

11/11 ø 2667.

11/12 ø 3080, off 1/2 degree.

11/13 ø 3535, off 1/2 degree at 3335.

11/14 ø 3940, off 1 degree.

11/15 ø 4245, off 1 degree.

11/16 ø 4440, off 1 degree.

11/17 ø 4629.

11/18 ø 4811.

11/19 Drilled to 4919. Preparing to core.

11/20 Started to go in hole w/core barrel, hit tight place at 2400. Pulled out core barrel, put on bit, reamed & conditioned hole to TD of 4919. Preparing to core.

11/21 Coming out w/core.

11/22 Core #1: 4919-4978, recovered 59':

4919-20 (1') shale, very fine grained, sandy, black, hard.

4920-34½ (14½') as above, bentonite streak at 4920.

4934½-37 (2½') sandstone, dark grey, very fine, silty, vertical frac, slight bleeding gas on fracture.

4937-38 (1') sand, coarse to conglomeratic, grey to brown, stain & odor.

4938-49 (11') sand, med. coarse to coarse, glauc., good oil stain & odor.

4949-59 (10') as above, slightly silty, v/fracs., stain & odor.

4959-62 (3') sandstone, med. fine, hard, compact, NB.

4962-66 (4') sand, med. coarse, rd, qtz., slight stain, slightly calc., oil stain & odor.

4966-67 (1') as above, slightly silty.

4967-71 (4') sand as above, clean, oil stain & odor.

4971-78 (7') sandstone, med. fine, silty, good odor, slight stain.

DST #1: 4932-78, tool open 30 min., gas to surface 4 min., mud to surface 18 min., oil to surface 21 min. est. 25 - 35 BOPH, no water, est. gas 500 MCF/day plus. 30-min. SIBHP - 1635; IHP 2775, IFP 565; FFP 835, FHP2685

11/23 Coming out w/core #2.

11/24 Core #2: 4978-5037, recovered 36':

4978-84 (6') sandstone, grey to brown, med. to fine grained, slightly silty, slight por. & perm., good stain & odor.

4984-5014 (30') sandstone, dark grey, very fine grained, hard, dense, silty, tight, bottom 6' had slight bleeding of gas on surface of core, but no stain & not any odor in the break.

5014-5037 (23') lost.

Attempted to run Schlumberger, stopped at 3185. Drilled to 5060, conditioned hole. Ran electric log, induction log & microlog to 5059.

1956

- 11/25 Conditioned hole. Laid down drill pipe. Ran 125 joints 5-1/2" OD 14# J-55 STC Range 3, 8 rd seamless casing, 5068' overall, set at 5052. Cemented w/ 100 sac regular cement, 100 sac Fomix, 2% gel. Pumped plug to 5038, plug down at 9:00 P.M. 11/24. Nippled up. Now WOC.
- 11/26 Ran temperature survey to 5033, top cement 4300. Ran Welox Gamma Ray and Neutron log. Ran 2" tubing w/Baker EOJ packer swung at 5008. Preparing to displace load water w/oil, and perforate.
- 11/27 Displaced load water w/oil. Tubing picked up to 4860 and Baker Model EOJ hook wall packer set at 4860. Ran 155 joints 2-3/8" OD 4.7# J-55 8 rd. EUE seamless tubing landed at 4860.
- Perforated: 19': 4946-4965 (Welox Gamma Ray measurements)
(4939-4958 - Schlumberger measurements)
and
16': 4972-4988 (Welox Gamma Ray measurements)
(4966-4982 - Schlumberger measurements)
TOTAL of 35', w/Welox 1-3/4" swing jet; 4 cone shots per foot, total of 140 holes, 7/16" holes. Swabbed well 1 hour, recovered 22 BLO. Well kicked off, started flowing, flowed 30 BO in 2-1/2 hrs. Well SI to pressure up. To continue testin.
- 11/28 SI 11 hours, SIP on tubing 500#. Well flowed 9 hours, made 118 BO no water, .1% sand. SI preparing to set tank battery.
- 11/29 SI, building tank grade & preparing to set tank battery.
- 11/30 Set tanks & separator. Connecting tank battery.
- 12/1 and 2 Hooking up tank battery.
- 12/3 Flowed well 11-1/2 hours, SITP 600#, flowing tubing pressure 55# on 3/4" choke. Made total of 158 BO in 11-1/2 hours, grindout .2% BS. Gas measured 291 MCF/24 hrs., GOR 880:1.
- 12/4 Took 24-hour production test: On 3/4" choke, flowed 300 BO, flowing tubing pressure 50#, 313 MCF/24 hours, GOR 1042:1, no water, no BS&W, specific gravity 38.5 corrected. Completion date: November 26, 1956.
- FINAL REPORT.