### ANDERSON-PRICHARD OIL CORPORATION

PRODUCERS REFINERS

DISTRICT IV FIELD OFFICE

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

1740 BROADWAY

DENVER, COLORADO

GENERAL OFFICE LIBERTY BANK BLDG. OKLAHOMA CITY 2, OKLAHOMA

January 17, 1957

Our File: DNM-8-E

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OIL CON. COM

U. S. Geological Survey P. 0. 20x 965 Farmington, New Mexico

PHONE KEYSTONE 4-1849

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

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## ANDERSON-PRICHARD OIL CORPORATION

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#### DISTRICT IV FIRLD OFFICE

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Joyd Moffatt, Oklahoma City, Office

LOCATE WELL CORRECTLY

U. S. Land Office Window Rock Arizona
Serial Number 14-20-603-1311
LEASE OR PERMIT TO PROSPECT ......

# UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

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Strain Stormer.

UNITED STATES

NAME OF WELL: #1 Heirs of Ko-se LOCATION: MW SW Section 23-25M-11W, San Juan County, New Mexico (1980' FSL, 720' FWL) 6471.8 GL, 6481 KB ELEVATION: 1956 11/5 and 6 Leveling location and building roads. 11/7 Moving in and rigging up rotary tool. Spudded at 9:30 A.M. 11/7. Drilled 15" hole to 205'. Ran 7 jts. 10-3/4" OD 11/8 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 \$ 2667. 11/12 Ø 3080, off 1/2 degree. \$ 3535, off 1/2 degree at 3335. 11/13 11/14 \$ 3940, off 1 degree. 11/15 Ø 4245, off 1 degree. 11/16 \$ 4440, off 1 degree. 11/17 \$ 4629. 11/18 \$ 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. 4920-34 (14) asabove, bentonite streak at 4920. 49342-37 (22) sandstone, dark grey, very fine, silty, vertical frac, slight bleeding gas on fracture. 4937-38 (1') sand, coarse to conglomertic, 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, MB. 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 BOPM, no water, est. gas 500 MCF/day plus. 30-min. SIBMP - 1635; IMP 2775, IFP 565; PFP 835. PMP2685 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 sur-

5014-5037 (23') lost.

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

face of core, but no stain & not any odor in the break.

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 sax regular cement, 100 sax Pommix, 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 Welex Gamma Ray and Neutron log. Ran 2" tubing w/Baker BOJ 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 seemless tubing landed at 4860.

Perforated: 19': 4946-4965 (Welex Gamma Ray measurements) (4939-4958 - Schlumberger measurements)

and

16': 4972-4988 (Welex Germa Ray measurements) (4966-4982 - Schlumberger measurements)

TOTAL of 35', w/Welex 1-3/4" swing jet; 4 cone shots per fot, 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 gorrected. Completion date: November 26, 1956.
FINAL REPORT.