

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 30221

Name: Marks Energy, Inc.

Address 1580 Lincoln St., #600

City/State/Zip Denver, Colorado 80203

Purchaser: None

Operator Contact Person: Steve Marks

Phone (303) 861-1974

Contractor: Name: Golden Eagle Drilling

License: 8682

Wellsite Geologist: Neal LaFon

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If ~~OWO~~: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

11/3/89 11/11/89 P&A 11/12/89

Spud Date Date Reached TD Completion Date

API NO. 15- 023-20,278 00-00

County Cheyenne

SW SE NE Sec. 35 Twp. 5S Rge. 37 East West

2970 Ft. North from Southeast Corner of Section

990 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

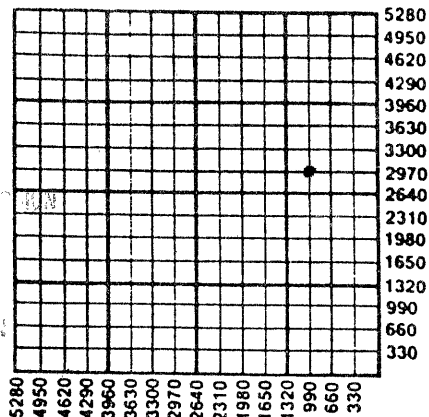
Lease Name Fisher Well # 1-35

Field Name Wet Beaver

Producing Formation None

Elevation: Ground 3418 KB 3425

Total Depth 5005 PBTD P&A



Amount of Surface Pipe Set and Cemented at 315 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Stephen K. Marks

Title Vice President Date 12/11/89

Subscribed and sworn to before me this 11th day of December, 19 89.

Notary Public Margaret A. Hoffmaster

Date Commission Expires _____

My Commission expires February 27, 1991
1580 Lincoln Suite 600
Denver, Colorado 80203

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
 Wireline Log Received
C Drillers Timelog Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Marks Energy, Inc. Lease Name Fisher Well # 1-35
 Sec. 35 Twp. 5S Rge. 37 East West
 County Cheyenne

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| | |
|---|--|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) | Formation Description <input type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom SEE ATTACHED GEOLOGIC REPORT |
|---|--|

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
|--|---|---|-----------------|--|----------------|--------------|----------------------------|
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 10-3/4 | 8-5/8" | 20 | 315' | Req. | 185 | |
| | | | | | | | |
| | | | | | | | |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | (Amount and Kind of Material Used) Depth | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD | | | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | Size | Set At | Packer At | | | | |
| | | | | | | | |
| | | | | | | | |
| Date of First Production | | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | | | |
| | | | | | | | |
| Estimated Production Per 24 Hours | | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity | |
| | | | | | | | |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

SIDE TWO

Operator Name Marks Energy, Inc. Lease Name Fisher Well # 1-35
 Sec. 35 Twp. 5S Rge. 37 East County Cheyenne
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Formation Description
 Log Sample
 Name Top Bottom
 SEE ATTACHED GEOLOGIC REPORT

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|---|---------------------------|-----------------|--|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs./Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface | 10-3/4 | 8-5/8" | 20 | 315' | Req. | 185 | |
| | | | | | | | |
| | | | | | | | |
| PERFORATION RECORD | | | | Acid, Fracture, Shot, Cement Squeeze Record | | | |
| Shots Per Foot | Specify Footage of Each Interval Perforated | | | Amount and Kind of Material Used | | | Depth |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| TUBING RECORD | | | | Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| | Size | Set At | Packer At | | | | |
| Date of First Production | Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | | | | |
| | Oil | Bbls. | Gas | Mcf | Water | Bbls. | Gas-Oil Ratio |
| Estimated Production Per 24 Hours | | | | | | | Gravity |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

Marks Energy, Inc.
#1-35 Fisher

c SW SE NE (990' fel x 2970' fsl)
sec. 35, T. 5 S., R. 37 W.
Cheyenne County, Kansas

November 13, 1989

Neal La Fon, geologist

RECORDED
STATE OF KANSAS

NOV 14 1989

COMMISSIONER OF REVENUE
Wichita, Kansas

RESUME

Operator: Marks Energy Inc.

Well: #1-35 Fisher

Location: c SW SE NE (990' fcl x 2970' fsl)
section 35 T. 5 S., R. 37 W.
Cheyenne County, Kansas

Elevations: G.L. 3418
K.B. 3425

Spud date: November 3, 1989

Completed Drilling: November 11, 1989

Surface casing: 320' 8 5/8 " casing set with 185 sxs 60/40 cmt, 2%
gel, 3% CaCl

Logs: Electralog/ Radiation Guard Log

Total depth: Driller 5005
Logger 5010

Drill stem tests: "M-5" & Cherokee #2 sand

Results: Plugged and abandoned

Contractor: Golden Eagle

Geologist: Neal La Fon

FORMATION TOPS

| | | #1-E Fisher | #4 Fisher |
|-------------------|------------|-------------|-----------------------|
| | | sw ne se | w $\frac{1}{2}$ sw ne |
| Anhydrite | 3108 + 317 | + 316 | + 317 |
| Oread | 4208 - 783 | - 781 | - 781 |
| Heebner | 4240 - 815 | - 815 | - 811 |
| Toronto | 4280 - 855 | - 852 | - 851 |
| Kansas City | 4298 - 873 | - 870 | - 869 |
| "K-7" | 4430 -1005 | -1007 | -1012 |
| "K-9" | 4477 -1052 | -1049 | -1053 |
| Marmaton | 4568 -1143 | -1138 | -1140 |
| "M-5" | 4623 -1198 | -1192 | -1193 |
| "M-6" | 4648 -1223 | -1215 | -1208 |
| "M-7" | 4680 -1255 | -1248 | -1252 |
| "M-7" \emptyset | 4686 -1261 | -1253 | -1258 |
| Cherokee lime | 4744 -1319 | -1313 | -1313 |
| Cherokee sand #1 | 4817 -1392 | -1382 | -1387 |
| Cherokee sand #2 | 4826 -1401 | -1392 | -1397 |
| Mississippian | 4990 -1565 | -1552 | -1551 |

SAMPLE DESCRIPTIONS

(lagged back to zones of interest)

| | | |
|---------|-----------|--|
| | 4090-4120 | Ls, wt to buff, microxtline, hard, tite, no p & p, no show some Ls, wt, f xtline, well cmted, no p & p, no show |
| | 4120-4140 | Ls, wt, f xtline, w abun bitumen, no live oil |
| | 4172-4184 | Ls, wt, f xtline, w abun intermixed green shale, hard, tite, no p & p, no show |
| | 4194-4202 | Ls, lt brown-gray, cryptoxline, sl soft-hard tite, no p & p no show trace Ls, wt, f grnst., w dead bitumen no porosity, well cmted trace Ls, a/a w interbedded red shale |
| OREAD | 4208-4218 | Ls, buff, f-m grnst., mod well cmted, poor p & p, some bitumen at top, abun bitumen at base |
| | 4218-4238 | mix of Ls, a/a with bitumen & Ls, gray, microxtline, some soft, some hard, all poor p & p, no show |
| HEEBNER | 4240-4246 | Shale, very black, carbonaceous |

| | | |
|---------------|-----------|---|
| | 4248-4252 | Ls, gray, vf-f xtline, well cmted, no p & p no show |
| | 4252-80 | Siltstone, red-dark brown w carb debris |
| TORONTO | 4280-4288 | Ls, wt, m xtline- m grnst, w dead bitumen (looks like Oread) |
| Kansas City | 4298-4308 | Ls, buff, m xtline, hard, well cmted, some s bitumen, rest no show one grain, f xtline, abun dead bitumen, some <u>live oil droplets</u> when crushed, hard, poor p & p, vf pinpt vug \emptyset some Ss, vf grn, gray, well sorted, some cal cmt, sl fri, fair p & p, no show |
| | 4326-4335 | Ls, wt, microxtline, vf pinpt vug \emptyset , some w dead bitumen, rest, no p & p, no show |
| | 4344-4356 | Ls, wt, f xtline, soft w abun intergran \emptyset w dead bitumen some m grnst, well cmted, w bitumen |
| | 4356-4364 | Ls, a/a with less bitumen some Ls, wt, microxtline, hard, tite, no p & p no show |
| | 4375-4390 | Ls, crmy, microxtline-f xtline, poor p & p no show few pieces Ls, brown, m grnst, v well cmted, pinpt vug \emptyset w <u>some live oil</u> and black bitumen, some no show |
| | 4392-4412 | Ls, wt, microxtline-vf xtline, hard, tite, no p & p, no show couple grns Ls, gray, microxtline, pinpt vug \emptyset w <u>live oil stn</u> |
| "K-7" | 4430-4446 | Ls, wt, microxtline, hard, tite, no p & p, no show some green shaly Ls, hard, tite |
| "K-9" (Upper) | 4478-4484 | Ls, crmy, microxtline, hard, tite, no p & p, no show, some with vvf pinpt vug \emptyset w dead bitumen (dirty looking shaly (?) Ls) some coarse grnst, v well cmted, hard, tite, no show |

| | | |
|---------------|-----------|--|
| "K-9" (Lower) | 4484-4496 | Ls, crmy, microxtline, hard, tite, no p & p, no show, few pieces w dead bitumen |
| | | couple pieces w <u>fair live oil stn</u> when crushed, vuf pinpt vug \emptyset , poor \emptyset |
| | 4514-4534 | Ls, buff, cryptoxline, hard, tite, no show some w vuf scat pinpt vug \emptyset w poor dead looking oil stn |
| | | trace, Ls, crmy, coarse grnst, v well cmted, some moldic \emptyset w dead oil stn/tar |
| | 4545-4556 | Ls, gray-dark gray, silty ?, cryptoxline, tite, no p & p, no show |
| MARMATON | 4570-4580 | Ls, brown, m grnst, well cmted, some vug \emptyset w dead oil |
| | | some Ls, crmy, cryptoxline, w pinpt vug \emptyset w tarry dead oil |
| | 4596-4612 | Ls, green, shaly, dirty, hard, tite, no p & p, no show |
| | | couple grns Ls, m grnst, w dead tarry oil, one <u>grn w live oil</u> |
| "M-5" | 4622-4631 | Ls, buff, m grnst, few pieces w vug \emptyset , <u>good live oil</u> , rest no show |
| "M-6" | 4647-4660 | Ls, tan, m- coarse grnst, v well cmted, no p & p, no show (more grnst at top), couple grns w tr pinpt vug \emptyset w <u>spotty live oil</u> |
| | | Ls, crmy, f-m xtline, hard, tite, no p & p, no show |
| "M-7" | 4680-4692 | Ls, wt-gray, microxtline, hard, tite, no p & p, no show |
| | | $\frac{1}{2}$ dozen grns Ls, tan, m grnst, some good vug \emptyset but no oil or stn, one grn w dead bitu- men |
| | 4696-4706 | Ls, gray, cryptoxline - microxtline, hard, tite, no p & p, no show |
| | 4709-4736 | Ls, gray dirty looking, silty, cryptoxline- med grnst, very well cmted, no p & p, no show |

| | | |
|------------------|--------------|---|
| | 4736-4740 | Shale, black, carbonaceous |
| Cherokee lime | 4744-4756 | Ls, gray, cryptotxtline, hard, tite, no p & p, no show |
| | 4756-4766 | Ls, darker gray "mottled" color, some w chert, almost black cryptotxtline, hard, tite, no p & p, no show |
| | 4772-4780 | Ls, lt gray, cryptotxtline, soft, no p & p no show |
| | | some Ls, wt, m grnst, soft-chalky, fri, no show |
| | 4780-4798 | Ls, crmy, cryptotxtline, soft, no p & p, no show |
| | | one piece from 90-95 Ls, wt, microxtline, w pinpt vug \emptyset , chalky, tarry oil |
| Cherokee sand #1 | 4818-4824 | Ss, gray, f gm, well sorted, sl fri-hard, some silty dirty, with clay fill & trace live oil, rest no show |
| | #2 4826-4830 | Ss, clear, v coarse gm sl fri, fair p & p, some sil cmt, all with exc live oil stn, some also with vvf bitumen flakes and sl tarry oil |
| | 4838-4844 | Ls, lt gray-dark gray, "mottled", cryptotxtline, hard, tite, no p & p, no show |
| | 4880-4886 | ? Ls, wt, cryptotxtline, soft-hard, tite, no show |
| | 4886-4898 | ? Ss, wt, m grn, tr glauc, well sorted, well cmted, hard, tite, poor p & p, no show |
| | 4909-4920 | mostly sh, dark red, green, yellow some Ss, red, f gm, dirty/silty, clay filled, fri, no show some Ls, wt, cryptotxtline, soft, no p & p, no show, cavings? |
| Mississippian | 4980-4990 | Dolo, crmy, vf xtline, hard, tite no p & p no show |
| | 4990-5000 | Dolo, gray, microxtline-vvf xtline, dense, hard, tite, no p & p, no show some Dolo, brown, vf xtline-sucrosic w trace glauc, hard, poor p & p, no show |

5000-5005 Dolo, tan, vvf grn sucrosic, sl fri, good
 p & p?, no show
 some Dolo a/a except gray-dark gray "mottled",
 tr to abun glauc, v fri-hard, no show

DRILL STEM TESTS

DST # 1 4594-4624 "M-5" Zone- Good test, tool went to bottem, no fill-up
 packers held.

op 20 si 30 op 60 si 60

Recovered: 810' Muddy salt water (15,000 ppm chlorides)

IFP 111-189
 ISIP 935
 FFP 256-390
 FSIP 946

DST # 2 4786-4830 Cherokee sand # 2 Zone Good test, tool went to bottom, no
 fill-up, packers held.

op 60 si 150

Recovered: 30' Mud

IFP 31-31
 FSIP 1075

BIT RECORD

| | | | | | | |
|---|-------|-----|------|------------|-----------|----------|
| 1 | 7 7/8 | Sec | S82F | out @ 2215 | made 1895 | hours 17 |
| 2 | 7 7/8 | | RT | 2500 | 352 | 7 |
| 3 | 7 7/8 | Sec | S82F | 3888 | 1321 | 52 |
| 4 | 7 7/8 | Sec | S84F | 5005 | 1117 | 69 |

DEVIATION SURVEYS

4624 $\frac{1}{4}^{\circ}$
 5005 misrun

MUD RECORD

| | | | | | |
|----------|-------------------|-----------|--------|--------|---------|
| 11/5/89 | Lost circ @ 2215' | | | | |
| 11/8/89 | @ 4183 | wt 9.1 | vis 50 | wl 8.0 | mc 2/32 |
| 11/8/89 | @ 4363 | wt 9.2 | vis 48 | wl 6.8 | mc 2/32 |
| 11/9/89 | @ 4573 | wt 9.3 | vis 46 | wl 7.2 | mc 2/32 |
| 11/10/89 | @ 4690 | wt 9.3 | vis 51 | wl 6.4 | mc 2/32 |
| 11/10/89 | @ 4830 | wt 9.3 | vis 58 | wl 6.8 | mc 2/32 |
| 11/11/89 | @ 4830 | wt 9.3 | vis 53 | wl 6.8 | mc 2/32 |
| 11/11/89 | @ 5005 T.D. | no report | | | |

PLUGGING RECORD

By order of the Kansas Corporation Commission the well was plugged as follows:

20 sxs @ 3140
100 sxs @ 2220
40 sxs @ 365
10 sxs @ 40
15 sxs @ Rathole
10 sxs in Mousehole

195 sxs total 60/40 poz 6% gel 2 sxs flow seal

COMMENTS

Structurally the #1-35 well ran 5-10' low on all zones (except the Anhydrite) compared to two key offset wells, the #1-E Fisher (sw ne se) and the #4 Fisher (w $\frac{1}{2}$ sw ne) of section 35.

Shows of poor quality and quantity were seen in the top of the Kansas City @ 4298 and from two thin limes @ 4376 and 4384. They were not deemed good enough to test "on the way down" and subsequent log analysis reveals them to be of little interest.

Similarly poor shows were noted in the "K-9" zone from a lower porosity streak @ 4485 but were deemed too poor to test. The main pay targets were the "M-5", "M-6", and "M-7" zones of the Marmaton. The "M-5" had weak shows in a medium grainstone with good vugular porosity, some of which had good live oil. The DST revealed the zone to be very porous but wet. The "M-6" porosity was poorly developed and had weak shows. The main zone, the "M-7", was present and very similar in log character to offsets. During drilling no shows were noted from this interval and hence no test run. The log suggests the zone is wet and since we were low to offsets which tested water a test after logging was not warranted. Subsequent to drilling the samples were re-examined and excellent vugular porosity was again noted from the interval and still no live oil was noted, except for a couple grains with very dead oil residue. My initial feeling was that the show was missed but I now firmly believe it truly had no show. This is not all that surprising considering the low resistivity of the zone and its very low structural position.

The second bench of the Cherokee sand @ 4826 had a good show with excellent live oil, was tested and appeared tight. The sand was somewhat recrystallized or cemented by silica and apparently has good porosity but very poor permeability.

The #1-35 Fisher had good porosity development in two of our main prospective pay zones but shows were very weak to non-existent due to our low structural position.