



Let your Interest in Measurement be our Concern

PRECISION SERVICE INC. RECEIVED JUL 27 1987  
Flow Measurement Engineers  
Analysis Results Summary  
Casper, WY 82601

Run No. 3039-1  
Date Run 7/24/87  
Date Sampled 7/20/87

Analysis For: HOKAY OIL CO.  
Lease: PECOS GLOVE APO  
Location: PIERCE FIELD 5  
Purpose:   
Sampling Temp. 94 °F  
Volume/day:   
Pressure on Bomb 50  
Producer:   
County: CHAVES State: NEW MEXICO  
Sampled By: K.D.S.  
Atmos Temp. 50 °F  
Formation:   
PSIG; Line Pressure 50 PSIG

Gas Component

Analysis

Press. Base: 14.73

|                                   | Mol. %  | Liq. % | GPM<br>Per MCF |
|-----------------------------------|---------|--------|----------------|
| Carbon Dioxide CO <sub>2</sub>    |         |        |                |
| Oxygen O <sub>2</sub>             |         |        |                |
| Nitrogen N <sub>2</sub>           | 5.354   |        |                |
| Hydrogen Sulfide H <sub>2</sub> S |         |        |                |
| Methane C <sub>1</sub>            | 89.101  |        |                |
| Ethane C <sub>2</sub>             | 2.836   |        | .703           |
| Propane C <sub>3</sub>            | 1.356   |        | .373           |
| Iso-Butane IC <sub>4</sub>        | .172    |        | .056           |
| Nor-Butane NC <sub>4</sub>        | .165    |        | .146           |
| Iso-Pentane IC <sub>5</sub>       | .112    |        | .041           |
| Nor-Pentane NC <sub>5</sub>       | .164    |        | .059           |
| Hexanes plus                      | .138    |        | .064           |
| Hexanes C <sub>6</sub>            |         |        |                |
| Heptanes                          |         |        |                |
| Heptanes Plus C <sub>7</sub> +    |         |        |                |
| Total                             | 100.001 |        | 1.442          |
| Pentane + G.P.M.                  |         |        | .164           |
| Propane + GPM                     |         |        | .739           |
| 26-lb Gasoline                    |         |        | .246           |

BTU Dry 1027  
BTU Wet 1012  
Calc. Specific Gravity .627

@ Std. Press. 14.696

BTU Dry 1027  
BTU Wet 1009

Calc. Vap. Press. #/Sq. In.

Reid Vap. Press. #/Sq. In.

C Factor .9979

N Value 1.3044

Ave Mol Wt 17.9735

Ave Cu Ft/Gal

Run by MARY DEMOS

Calculated By EVELYN SWANSON

Remarks:

Distribution:

Form 3160-4  
(November 1983)  
(formerly 9-330)

NM Oil Cons. Commission

Drawer 1

CONFIDENTIAL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See other In-  
structions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                                                                                                                                                                                   |                            |                                                                            |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------|-------------------------|
| 1a. TYPE OF WELL:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other <input type="checkbox"/>                                                                                   |                            | RECEIVED<br>NOV 08 '88                                                     |                         |
| b. TYPE OF COMPLETION:<br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. ENVR. <input type="checkbox"/> Other <input type="checkbox"/> |                            |                                                                            |                         |
| 2. NAME OF OPERATOR<br>McKay Oil Corporation ✓                                                                                                                                                                                                    |                            | O. C. D.<br>ARTESIA, OFFICE                                                |                         |
| 3. ADDRESS OF OPERATOR<br>Post Office Box 2014, Roswell, New Mexico 88201                                                                                                                                                                         |                            |                                                                            |                         |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 890' FSL & 1980' FEL<br>At top prod. interval reported below<br>At total depth                                                         |                            |                                                                            |                         |
| 14. PERMIT NO.                                                                                                                                                                                                                                    |                            | DATE ISSUED                                                                |                         |
| 15. DATE SPUDDED<br>2-6-87                                                                                                                                                                                                                        |                            | 16. DATE T.D. REACHED<br>2-11-87                                           |                         |
| 17. DATE COMPL. (Ready to prod.)<br>7-20-87                                                                                                                                                                                                       |                            | 18. ELEVATIONS (DF, RNB, RT, GR, ETC.)*<br>4396' GR                        |                         |
| 19. ELEV. CASINGHEAD                                                                                                                                                                                                                              |                            |                                                                            |                         |
| 20. TOTAL DEPTH, MD & TVD<br>3400'                                                                                                                                                                                                                |                            | 21. PLUG BACK T.D., MD & TVD<br>3310'                                      |                         |
| 22. IF MULTIPLE COMPL. HOW MANY*                                                                                                                                                                                                                  |                            | 23. INTERVALS DRILLED BY<br>ROTARY TOOLS<br>CABLE TOOLS<br>All             |                         |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>2812 - 3141.5 Abo                                                                                                                                                |                            | 25. WAS DIRECTIONAL SURVEY MADE<br>Yes                                     |                         |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>DLL/MSFL; Cyberlook; CBL/VDL; CNL/FDL; PRL                                                                                                                                                                |                            | 27. WAS WELL CORED<br>No                                                   |                         |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                                                |                            |                                                                            |                         |
| CASING SIZE                                                                                                                                                                                                                                       | WEIGHT, LB./FT.            | DEPTH SET (MD)                                                             | HOLE SIZE               |
| 8 5/8"                                                                                                                                                                                                                                            | 24#                        | 926'                                                                       | 12 1/2"                 |
| 4 1/2"                                                                                                                                                                                                                                            | 9.5#                       | 3388'                                                                      | 7 7/8"                  |
| CEMENTING RECORD                                                                                                                                                                                                                                  |                            | AMOUNT PULLED                                                              |                         |
| 300 sxs. + 310                                                                                                                                                                                                                                    |                            | 5 sxs.                                                                     |                         |
| 325 sxs. + 250                                                                                                                                                                                                                                    |                            |                                                                            |                         |
| 29. LINER RECORD                                                                                                                                                                                                                                  |                            |                                                                            |                         |
| SIZE                                                                                                                                                                                                                                              | TOP (MD)                   | BOTTOM (MD)                                                                | SACKS CEMENT*           |
|                                                                                                                                                                                                                                                   |                            |                                                                            |                         |
| 30. TUBING RECORD                                                                                                                                                                                                                                 |                            |                                                                            |                         |
| SIZE                                                                                                                                                                                                                                              | DEPTH SET (MD)             | PACKER SET (MD)                                                            |                         |
| 2 3/8"                                                                                                                                                                                                                                            | 2777'                      |                                                                            |                         |
| 31. PERFORATION RECORD (Interval, size and number)                                                                                                                                                                                                |                            |                                                                            |                         |
| 2812 - 2824 (9)                                                                                                                                                                                                                                   |                            | 0.35" jet shots                                                            |                         |
| 2867.5 - 2875 (6)                                                                                                                                                                                                                                 |                            | 29 holes                                                                   |                         |
| 2933 - 2948 (11)                                                                                                                                                                                                                                  |                            |                                                                            |                         |
| 3138.5 - 3141.5 (3)                                                                                                                                                                                                                               |                            |                                                                            |                         |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                                                                                                                    |                            |                                                                            |                         |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                                               |                            | AMOUNT AND KIND OF MATERIAL USED                                           |                         |
| 2812-3141.5                                                                                                                                                                                                                                       |                            | 4000 gals. 7 1/2% Abo Acid,                                                |                         |
|                                                                                                                                                                                                                                                   |                            | 56000 gals. 50# Linear gel, 47750                                          |                         |
|                                                                                                                                                                                                                                                   |                            | 20/40 & 23000 12/20# sd.                                                   |                         |
| 33.* PRODUCTION                                                                                                                                                                                                                                   |                            |                                                                            |                         |
| DATE FIRST PRODUCTION<br>SI                                                                                                                                                                                                                       |                            | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>SI |                         |
| WELL STATUS (Producing or shut-in)<br>SI                                                                                                                                                                                                          |                            |                                                                            |                         |
| DATE OF TEST<br>7-20-87                                                                                                                                                                                                                           | HOURS TESTED<br>4 hrs.     | CHOKE SIZE                                                                 | PROD'N. FOR TEST PERIOD |
| FLOW. TUBING PRESS.<br>597-120                                                                                                                                                                                                                    | CASING PRESSURE<br>600-395 | CALCULATED 24-HOUR RATE                                                    | OIL—BBL.<br>158         |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>SI                                                                                                                                                                                  |                            | GAS—MCF.<br>40                                                             |                         |
| 35. LIST OF ATTACHMENTS<br>C-122; Deviation Survey; 2 copies of logs listed above                                                                                                                                                                 |                            | WATER—BBL.                                                                 |                         |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                                                 |                            | GAS-OIL RATIO                                                              |                         |
| SIGNED <u>Theresa Rodriguez</u>                                                                                                                                                                                                                   |                            | OIL GRAMMITSPI (CORR.)                                                     |                         |
| TITLE <u>Production Analyst</u>                                                                                                                                                                                                                   |                            | BUREAU OF LAND MANAGEMENT<br>ROSWELL, NEW MEXICO                           |                         |

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

### 38. GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP             |                  |
|-----------|-----|--------|-----------------------------|------|-----------------|------------------|
|           |     |        |                             |      | MEAS. DEPTH     | TRUE VERT. DEPTH |
|           |     |        |                             | Abo  | 2764<br>(+1642) |                  |