(Old Well Worked Over)

October 3, 1960

| Abraham | | Jicarilla No. 2 | |
|-------------------|----------------------------|-----------------|----------------|
| NW Sec. 27, T- | 24-N, R-5-W | Rio Arriba | New Mexico |
| Pictured Cliff | | Ballard | |
| 5-1/2 4-1/2 Li | 2214 ner 2100 - 2160 | 1" | 2240 |
| 2262 | 2300 | 2302 | Sept. 26, 1960 |
| Sand Water Frac | . 30,000 lbs. 30,000 gals. | X | |

| 2" Nipple | ** | | | | |
|------------|-----|---|----------|-----------------------|-------|
| 513 | 525 | 7 | 513 | 525 | |
| 1.8" Water | | | 4 | 16 | |
| 5 6 | | | 1.007 | . 6 7 0 | .9849 |

158 MCF/D x 1.0039 x .9849 x 1.007

157

= $157 \left(\frac{275,625}{275,369} \right) = 157 \times 1.000 = 157$

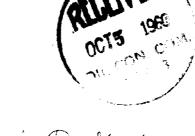
157

L. D. Galloway & R. L. Nickell

Oscar Abraham

Volumes Measured 1 Hour 286 MCF/D

2 Hours 183 MCF/D 3 Hours 157 MCF/P



Lewis D. Galloway

OPEN FLOW TEST DATA

and the same of the same

(Old Well Worked Over)

October 3, 1960

| Abraham | | Jicarilla No. 2 | |
|----------------------|------------------------|-----------------|----------------|
| NW Sec. 27, T-24-N | , R-5-W | Rio Arriba | New Mexico |
| Pictured Cliff | | Ballard | |
| 5-1/2 4-1/2 Liner | 2214 2100 - 2160 | 1" | 2240 |
| 2262 | 2300 | 2302 | Sept. 26, 1960 |
| Band Water Frac. 30 | ,000 lbs. 30,000 gals. | X | |

2" Nipple

513 525 7 513 525

1.8" Water --- 4 16

56 1.007 .670 .9849

158 MCF/D X 1.0039 X .9849 X 1.007

157

= $157 \left(\frac{275,625}{275,369} \right) = 157 \times 1.000 = 157$

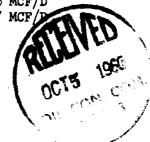
157

L. D. Galloway & R. L. Nickell
Oscar Abraham

Volumes Measured

1 Hour 286 MCF/D 2 Hours 183 MCF/D

3 Hours 157 MCF



Lewis D. Calloway.

5. LEASE

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

| DEPARTMENT OF THE INTERIOR | |
|---|---|
| GEOLOGICAL SURVEY | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.) | Jicarilla Apache 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME |
| 1. oil gas 🕥 | Jicarilla apache |
| well well other 2. NAME OF OPERATOR _ | 9. WELL NO. 2 |
| (Jay J. Harris) mike abraham 3. ADDRESS OF OPERATOR | 10. FIELD OR WILDCAT NAME Ballard Pictured Cliffs |
| 801 Ridgecrest Drive, Albuquerque, N. M. 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA E 27-24N-R5W |
| below.) AT SURFACE: | 12. COUNTY OR PARISH 13. STATE |
| AT TOP PROD. INTERVAL: AT TOTAL DEPTH: | Rio Arriba New Mexico 14. API NO. |
| 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | 15. ELEVATIONS (SHOW DF, KDB, AND WD) |
| REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: | |
| TEST WATER SHUT-OFF | IVE |
| PULL OR ALTER CASING | (NOTE: Report results of multiple completion or zone change on Form 9–330.) |
| CHANGE ZONES | |
| 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly stat including estimated date of starting any proposed work. If well is d measured and true vertical depths for all markers and zones pertiner | lirectionally drilled, give subsurface locations and |
| MOL & RU. Circulate thru 1" tubing string. tubing in the hole. Spot a 43 sx (47 ft. ³). Plug across the ope of the liner, leaving a cement plug from 210 | en hole section to the top |
| Pull work string out of hole. Perforate a softhe Ojo Alamo (1890'). Spot a 31 sx. (3 perforations. Pressure displace 20 sx. throplug will cover from 1790' to 1890'. | 4 ft ³) Plug across the |
| Perforate a squeeze hole @200', 100' below an 85 sx. plug to the surface thru the squefull. | |
| Install a dry hole marker. Subsurface Safety Valve: Manu. and Type | Set @Ft. |
| 18. I hereby entify that the foregoing in true and correct Production SIGNED TITLE Engineer | DATE8-24-79 |
| (This space for Federal or State of | lice use) |
| APPROVED BY TITLE CONDITIONS OF APPROVAL. IF ANY: | DATE |
| CONDITIONS OF MERNOVAE, IF ANT. | |

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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| |

| SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different | 7. UNIT AGREEMENT NAME | |
|---|---|--|
| reservoir. Use Form 9–331–C for such proposals.) | 8. FARM OR LEASE NAME | |
| 1. cil gas X | Jicarilla | |
| well well other | 9. WELL NO. | |
| 2. NAME OF OPERATOR | No. 2 | |
| Jay J. Harris (filed by E.P.E.X.) | 10. FIELD OR WILDCAT NAME | |
| 3. ADDRESS OF OPERATOR | Ballard P.C. | |
| 801 Ridgecrest Drive, Albuquerque, N. M. | 11. SEC., T., R., M., OR BLK. AND SURVEY O | |
| 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) | AREA E 27-24N-R5W | |
| AT SURFACE: | 12. COUNTY OR PARISH 13. STATE | |
| AT TOP PROD. INTERVAL: | Rio Arriba New Mexico | |
| AT TOTAL DEPTH: | 14. API NO. | |
| 16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, | | |
| REPORT, OR OTHER DATA | 15. ELEVATIONS (SHOW DF, KDB, AND WD | |
| REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: | | |
| REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF: | | |
| FRACTURE TREAT | | |
| SHOOT OR ACIDIZE | | |
| REPAIR WELL PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES | (NOTE: Report results of multiple completion or zon | |
| PULL OR ALTER CASING | change on Form 9-330.) | |
| PULL OR ALTER CASING MULTIPLE COMPLETE CHANGE ZONES ABANDON* | | |
| ABANDON* | | |
| (other) | | |
| | | |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/25-28, 1981

- 1. Pull 1" tubing and run 1 1/4" tubing in hole, circulate.
- 2. Spot 45 sx cement plug in open hole to top of liner (2100'-2302')
- 3. Perforate 2 squeeze holes at bottom of Ojo Alamo (1890')
- 4. Spot a 31 sx cement plug across perforations. Displace 20 sx thru perforations (1890'-1790').

5. Perforate 2 squeeze holes at 200' and circulate 85.x cement plug to surface leaving casing full.

6. Install a P & A marker.

NOV 1 8 1981 OIL CON. COM. DIST. 3

Subsurface Safety Valve: Manu. and Type ________ Set @ ______ Ft.

18. I hereby certify that the foregoing is true and correct Froduction Engineer 10-21-81

SIGNED TITLE Engineer DATE 10-21-81

(This space for Federal or State office use)

APPROVED BY (Orig. Sec.) RATE OF THE ACTION BY APPROVED BY (Orig. Sec.) RATE OF THE ACTION BY APPROVED BY APPROVAL, IF ANY:

"Complied with general requirements. Site ready for inspection."