

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Water Injection

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
TRACCO Inc., Domestic Producing Department - West

3. ADDRESS OF OPERATOR
Wyoming Building - 4th Floor
200 East 2nd Street, Casper, Wyoming 82401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2400' PNL and 190' PNL of Sec. 27
At top prod. interval reported below _____
At total depth _____

5. LEASE DESIGNATION AND SERIAL NO.
0-22213

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME
Medalla Gulch

8. FARM OR LEASE NAME _____

9. WELL NO.
12

10. FIELD AND POOL, OR WILDCAT
Medalla Gulch

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 27-T4N-R30E-12A PM

12. COUNTY OR PARISH
Hotchkiss

13. STATE
Colorado

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUDDED 4-2-67 16. DATE T.D. REACHED 9-2-67 17. DATE COMPL. (Ready to prod.) 9-16-67 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7400' KB 19. BLEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD 6782' 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* Single 23. INTERVALS DRILLED BY Surface to TD ROTARY TOOLS _____ CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Sundance interval 6377' to 6782'

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN
ILD - Compensated Formation Density

27. WAS WELL CORED Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>10-3/4"</u>	<u>40.5</u>	<u>490'</u>	<u>10"</u>	<u>100' on cement, 3% CPL</u>	<u>35' on 10"</u>
<u>7"</u>	<u>20, 21, 26</u>	<u>4400'</u>	<u>6-3/4"</u>	<u>475' on 7-1/2" cement</u>	<u>475'</u>

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
<u>6-1/2"</u>	<u>4340'</u>	<u>6782'</u>	<u>None</u>	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
<u>3-1/2"</u>	<u>4340'</u>	<u>4340'</u>

31. PERFORATION RECORD (Interval, size and number)
Sundance interval 6377-6451' with 1 jet shot per foot.
Re-perf. Sundance interval 6386-6440' with 2 hyper jets per foot.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) _____ AMOUNT AND KIND OF MATERIAL USED _____
SEE ATTACHED SHEETS

33.* PRODUCTION

DATE FIRST PRODUCTION 9-16-67 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) INJECTION WELL STATUS (Producing or shut-in) Normal Injection

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
		→				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
SEE PAGES 2 and 3 ATTACHED

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Signed: D. G. BAKER TITLE Dist. Superintendent DATE 11-21-67

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

SCHLUMBERGER LOG TOPS

Frontier	5394'
Mowry	5688'
Dakota	5746'
Morrison	5891'
Entrada	6385'

CORING RECORD

Core No. 1 - Dakota - 5743-5777' - Cut 34', Recovered 34' - 4-25-67

5743-5750-1/2' Shale, black
 5750-1/2-5756' Ss, wht, hard, tite, vert. frac., no shows
 5756-5757-1/2' Shale, black
 5757-1/2-5766' Ss, wht, hard, tite, vert. frac., no shows
 5766-5767-1/2' Shale, black
 5767-1/2-5772' Ss, wht, hard, tite, fine grain, no shows
 5772-1/2-5776' Ss, wht, hard, fine grain, fair porosity, bleeding oil
 5776-5777' Shale, black

Core No. 2 - Dakota - 5777-5787' - Cut 10', Recovered 10' - 4-26-67

5777-5780' Ss, wht, fine grain, calc, v. hard, streaks of poor to fair porosity with 1 - 3" band oil sts., scattered shows of oil in porosity zones, vert. frac. with oil stain
 5780-5784' Stat, dk gray, no show
 5784-5786' Shale, dk gray to black
 5786-5787' Not Recovered

Core No. 3 - Dakota - 5787-5803' - Cut 16', Recovered 16' - 4-26-67

5787-5788' Shale, dk gray, black, v. hrd., silty
 5788-5792' Stat, drk gray, gray-brown, v. hrd, sandy, no show
 5792-5803' Ss, wht, fn grain, fair to good por, good lt brown oil stn, strong odor of crude, gas and oil bubbling along hairline high angle fractures, slightly calc, well sorted and sub ang., qtz grns.

DRILL STEM TESTS

No drill stem tests taken.

WELL HISTORY

Perforated from 5866-5870' KB with 1 jet shot per foot. Set Baker Model "K" cement retainer at 5855' on 3-1/2" EUE tubing and squeezed perfs with 250 ex 50-50 Pozmix, 2% gel & 0.6% Melad 9 LFL additive, displaced 100 ex into formation and reversed out 150 ex. Perforated 5824-30' with 2 casing jets per foot. Ran Model "R" packer and set at 5800' KB. Swabbed 102 bbl water, no shows. Swabbed at rate of 3.34 BPM. Reset packer at 5815' KB and squeezed perfs 5824-30' with 200 ex 50-50 Pozmix, 2% gel and 0.6% Melad 9. Squeezed to maximum pressure of 2500 psi. Reset packer at 5715' and repressured to 1500 psi. WOC.

Continued on Page 3 attached.

WELL HISTORY

Pulled tubing and packer. Perforated 5792-5811', 5756-62' and 5772-77' with 2 jet shots per foot. Set Model "R" packer at 5731' KB. Swabbed, tested, recovered 125 bbls. water, no shows. Reset packer at 5785' KB. Swabbed perfs 5792-5811' for 7-1/2 hrs., recovered 189 bbls. water. Pulled tubing and packer. Ran RBP and packer, set RBP at 5783' and packer at 5731' KB. Swabbed 41 bbls. water in 4 hrs., then dry for 2-1/2 hrs. Shut in overnight. Pulled swab and recovered 7 bbl. fluid, 50% oil and 50% water. Acidized with 500 gal. Inh. 15% HCL with non-emulsifier, maximum press 2500 psi, broke to 1000 psi when acid hit and then to 750 psi. Shut in for 2 hrs. Swabbed 3 hrs, no recovery. Shut in 16-1/2 hrs. Made one swab run, recovered 7 BF, 50% oil. Swabbed additional 7-1/2 hrs., recovered 7-1/2 bbls. fluid, 50% oil. Displaced water with 210 bbl. crude. With RBP at 5783' and packer at 5731' free. perfs 5756-62' and 5775-77' as follows: pumped 100 bbl. oil pad with 50 lb/1000 gal. Adomite at 19 BPM at 4600 psi, no breakdown. Fractured with 235 80 and 2100# 20-40 sand at 1/2# per gallon at 19 BPM at 4700 psi and with 1050# 10-20 sand at 1 lb/gal. with 25#/1000 gal. Adomite at 19 BPM. Pressure increased from 4700 to 6000 psi while displacing 10-20 sand. Stopped sand and displaced with 45 80 at 7 to 2 BPM at 6200 to 6500 psi. Pressure decreased to 1100 psi in 5 minutes and to 900 psi in 35 minutes. Shut well in. Released packer and cleaned out sand from 5731' to 5779'. Reset packer at 5731'. Swabbed well, recovered 271 bbl. load oil in 61 hours, last 3 hours 50% water. Pulled packer and RBP, reran Model "R" packer and set at 5691' KB. Squeezed perfs 5756-62', 5772-77' and 5792-5811' with 200 ex 30-50 Pozmix LFI cement to 2200 psi, squeezed 160 ex to formation and reversed out 50 ex. Drilled out cement to 6460'. Perforated Sundance interval 6377' to 6451' with 2 jet shots per foot. Ran Baker Lok-set packer and set at 6317' on 3-1/2" EUE tubing. Swabbed 2 hours at estimated rate of 40 BWPH. Hooked well up for water injection into Sundance, wouldn't take water at 1500 psi. Acidized Sundance interval 6377-6451' with 2000 gallons 15% HCL, maximum pressure 3500 psi and 5 BPM, injection rate after acid job 1.25 BPM at 1500 psi. Pulled Lok-set packer and tubing. Reperforated Sundance interval 6386'-6440' with two hydre jets per foot. Ran 3-1/2" EUE tubing and Baker Lok-set packer, set packer at 6317' KB. Prepared to inject water. Commenced water injection into Sundance formation interval 6377'-6451' on 6-20-67, and continued tests until 8-27-67. A total of 109,676 bbls. of water was injected in 61 days during the period at an average of 1798 BWPD at pressures from 250 psi to 1250 psi. Last 7 days of period, tests were 2300 BWPD injected at 1100 psi. On 8-28-67, moved in service unit, pulled tubing. Ran 6" bit, twelve 4-1/2" drill collars and tubing, tagged bottom at 6460' KB, drilled out to 6783' KB. Ran 443' of 4-1/2" OD 11.6# J-55 LTBC slotted and plain casing liner as follows: 381' slotted and 62' blank liner, set on bottom at 6783' KB and top of liner at 6340' KB. Ran Baker LOK-SET Packer and set at 6283' KB. Started injection of water on 9-13-67 at rate of 36 BPM at 600 psi and 54 BPM at 800 psi. Acidized with 1000 gallons 15% HCL acid followed by 500 gallons 15% DS-HF acid. Displaced at one BPM at 300 psi, broke down when acid hit, increased displacement rate to 2 BPM, displaced to top of perfs. Let set 30 minutes. Ran fluid injection rate tests as follows: 8 BPM at 1500 psi, 11 BPM at 1900 psi, 4 BPM at 800 psi and 6 BPM at 1300 psi. Injected a total of 350 BW with pump truck behind acid. Commenced water injection on 9-16-67. Injection rate 2.5 BPM at 700 psi in Sundance interval 6377' to 6783'.