

ATTACHMENT FOR FORM G-105
Record of Production and Stimulation

JAMES RANCH UNIT # 1

0-36-22-30

1. Treated thru casing perforation 14,270' - 14,295' w/500 gallons 7 1/2% NCA.
2. In 9 hrs. swabbed 7 BW at 1 run/hr. In next 9 hrs. flowed gas at rate of 195 MCF/D thru 32/64" choke. FTP 50 psi. GP 250 psi.
3. Injected 10,000 gallons gelled lease crude.
4. Swabbed dry.
5. Perforated 14,277' - 14,299', 14,030', 14,050', 14,074' - 14,092', & 14,186' - 14,200' w/4 jet shots per foot.
6. Flowed gas at rate of 142 MCF/D thru 18/64" choke. FTP 150 psi. GP 450 psi.
7. Loaded casing annulus w/133 BC & treated perforations w/1000 gallons 7 1/2% NCA.
8. Flowed gas at rate of 250 MCF/D thru 32/64" choke. FTP 75 psi.
9. Set Baker BP @ 13,980' & capped w/1 sz. cement.
10. Perforated 13,742' - 13,750' & 13,890' - 13,900' w/4 jet shots per foot.
11. Ran swab to 13,000' & swabbed out 3 BP.
12. Set Baker GHP @ 13,000' & capped w/1 sz. cement.
13. Perforated 12,920' - 12,929' w/4 jet shots per foot.
14. On GPT flowed gas w/open-flow potential of 9 MMCF/D. GGR 86,012.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

DATE 01-11-2001 BY 60322

Original Sir
Rex C. C

27
4

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

10-10-50

OIL CONSERVATION COMMISSION

ARTESIA DISTRICT OFFICE

No. Copies Received

6

DISTRIBUTION

ED

U.S.S.F.

Inspector

File

Bm

Original Signed
Rex C. Osborn

James Ranch Area Wildcat
James Ranch Unit # 1

Attachment for State Form C-105

- DST # 1: 5765' - 5820' (55' Delaware Mountain sand). Tool open 2 hours thru 5/8" BC & 1" TC on 4 1/2" DS. Immediate very weak blow increasing to weak in 1 hour and lasting throughout test. NOTS. Recovered 20' (0.1 bbl.) heavily oil (estimated 50% oil) SO&GCM / 100' (0.5 bbl.) SO&GCM (estimated 50% oil). Pit mud titrated 5000 ppmCl⁻. Recovered mud titrated 7000 ppmCl⁻. 30 minutes ISIBHP failed. FBHP 100 - 110 psi. 45 minutes FSIBHP 960 psi. NMH 2780 - 2740 psi. Positive Test. (Cook)
- DST # 2: 6476' - 6548' (72' Delaware Mountain sand & shale). Tool open 3 hours thru 5/8" BC & 1" TC on 4 1/2" DS. Immediate weak air blow lasting throughout test. NOTS. Recovered 90' (0.8 bbls.) SO & GCM that titrated 10,000 ppmCl⁻ / 20' (0.2 bbl.) salty drilling mud that titrated 40,000 ppmCl⁻. Pit mud titrated 5000 ppmCl⁻. 30 minutes ISIBHP failed. FBHP 80 - 130 psi. 90 minutes FSIBHP 1980 psi. NMH 3220 psi. Maximum temperature 1340 deg. F. Conclusive Test. (Cook)
- DST # 3: 6719' - 6768' (49' Delaware Mountain sand). Tool open 2 hours thru 5/8" BC & 1" TC & 1/4" TC on 4 1/2" DS. Immediate fair blow lasting throughout test. OTS 10 minutes. TSTM. Recovered 450' (6.3 bbls.) oil / 530' (7.4 bbls.) SMCO (estimated 90% oil). Gravity 38.2 deg. API @ 60 deg. F. 30 minutes ISIBHP 3020 psi. FBHP 100 - 400 psi. 60 minutes FSIBHP 2680 psi. NMH 3350 - 3300 psi. Maximum temperature 141 deg. F. Conclusive Test. (Cook)
- DST # 4: 6820' - 6924' (104' Delaware Mountain sand). Tool open 1 hour thru 5/8" BC & 1" TC on 4 1/2" DS. Immediate very weak blow increasing to weak in 15 minutes & lasting throughout test. NOTS. Recovered 280' (2.5 bbls.) SO&GCM (estimated 10% oil) / 20' (0.2 bbl.) HO&GCM (estimated 80% oil). 30 minutes ISIBHP 2490 psi. FBHP 130 - 160 psi. 60 minutes FSIBHP 2300 psi. NMH 3400 psi. Pit and recovery mud titrated 5000 ppmCl⁻. Conclusive Test. (Cook)
- DST # 5: 7264' - 7334' (170' Delaware Mountain sand). Tool open 2 hours thru 5/8" BC & 1" TC on 4 1/2" DS. Immediate weak blow lasting throughout test. NOTS. Recovered 360' (3.1 bbls.) VSO&GCM (estimated 1% oil). 30 minutes ISIBHP failed. FBHP 160 - 220 psi. 120 minutes FSIBHP 2170 psi. NMH 3590 psi. Pit mud titrated 5000 ppmCl⁻. Recovery mud titrated 11,000 ppmCl⁻. BHT 146 deg. F. Conclusive Test. (Cook)
- DST # 6: 9580' - 9645' (65' Bone Spring sand). Tool open 1 hour thru 5/8" BC & 1" TC on 4 1/2" DS. Opened w/immediate fair blow which decreased to weak in 10 minutes & lasted throughout test. NOTS. Recovered 70' (0.6 bbls.) uncut drilling mud. 30 minutes ISIBHP 565 psi. FBHP 80 psi. 45 minutes FSIBHP 265 psi. NMH 4640 psi. BHT 136 deg. F. Positive Test. (Johnston)
- DST # 7: 10,040' - 10,108' (68' Bone Spring sand & limestone). Tool open 1 hour 25 minutes thru 5/8" BC & 1" TC on 4 1/2" DS. Immediate fair blow decreasing slightly at the end of test. OTS 40 minutes. TSTM. No fluid to surface. Recovered 110' (0.8 bbls.) gas cut mud. No evidence of oil or water. 30 minutes ISIBHP 3395 psi. FBHP 60 - 60 psi. 40 minutes FSIBHP 1335 psi. NMH 4970 psi. Conclusive Test. (Johnston)
- DST # 8: 14,927' - 15,501' (674' Mississippian limestone, Woodford shale, & Devonian dolomite). Tool open 20 1/4 hours thru 5/8" BC & 1" TC on 2 7/8" DS. Immediate good blow lasting throughout test. MTS 27 minutes. OTS 30 minutes. Cleaned to pits for 35 minutes. Flowed at stabilized rate of 2850 MCFPD. Flowing surface pressure 350 - 300 psi. Reversed out gas from drill pipe. Recovered 250' (0.4 bbl.) GCM below circulating sub. No evidence of water or oil. FBHP 2340 - 1870 psi. 10 hour FSIBHP 6345 psi. NMH 7080 psi. BHT 214 - 204 deg. F. Conclusive Test. (Johnston)

Original Signed By
Rex C. Cabaniss

- DST # 9: 14,927' - 15,688' (761' Mississippian limestone, Woodford shale & Devonian dolomite). Tool open 3 hours & 25 minutes thru 5/8" BC & 1" TC on 2 7/8" DS. Immediate strong blow decreasing to fair in 15 minutes & increasing to strong after 40 minutes. NGTS in 42 minutes. Cleaned to pits for 40 minutes. Turned into separator w/initial flow at rate of 2770 MCF/D. FSP 300 psi. Decreased to 1200 MCF/D w/FSP 175 psi after 30 minutes. After 1 hour stabilized at rate 1310 MCF/D w/FSP 225 psi. Water to surface 2 hours 10 minutes. In 1 hour flowed 10 BW. Reversed out full string gas w/5 BW. Recovered 390' (0.6 bbl.) water below circulating sub. Total recovery 16.6 bbls. black, salty, sulphur water. Titrated 93,000 ppmCl⁻. FBHP 1270 - 1960 psi. 4 hour FSIHP 6635 psi. HMH 7260 psi. BHT 204 - 215 deg. F. Conclusive Test. (Johnston)
- DST # 10: 15,764' - 15,937' (173' Devonian dolomite). Tool open 1 hour & 45 minutes thru 5/8" BC & 1" TC on 2 7/8" DS. Immediate very weak blow gradually increasing to fair in 45 minutes & lasting remainder of test. NGTS. Recovered 14,600' (64 bbls.) black salty sulphur water. Titrated 90,000 ppmCl⁻. No evidence of oil. FBHP 1605 - 6930 psi. 45 minutes FSIHP 7045 psi. HMH 8100 psi. BHT 240 - 235 deg. F. Conclusive Test. (Johnston)
- DST # 11: 16,322' - 16,433' (111' Silurian Dolomite) w/full string of Nitrogen @ 925 psi. Tool open 40 minutes thru 5/8" BC & 1" TC on 2 7/8" DS. Filled drill pipe w/Nitrogen @ 925 psi. Set packers & opened tool w/flow line closed. Surface pressure increased to 1025 psi in 20 minutes. Mud dropped in annulus @ slow rate. Opened flow line & surface pressure bled to 400 psi in 20 minutes. When pressure reached 500 psi mud in annulus began to drop more quickly. Shut in tool manually & mud continued to drop. Shut in using hydraulic tool & mud ceased dropping. NGTS. Recovered 6400' (28.5 bbls.) gas & salt water cut mud titrated 23,000 ppmCl⁻. Pit mud titrated 6000 ppmCl⁻. FBHP 1970 - 3005 psi. 15 minutes FSIHP 3890 psi. Conclusive Test. (Johnston)
- DST # 12: 17,378' - 17,555' (177' Ellenburger dolomite & Simpson sand). Pressured drill pipe w/Nitrogen gas to 825 psi. Tool open 2 hours 7 minutes thru 5/8" BC, 1/4" TC on 2 7/8" DP. Maintained 825 psi on drill pipe for 17 minutes then gradually bled pressure from 825 psi to 0 psi in 75 minutes. NGTS. Very weak blow of air after Nitrogen fled off. Recovered 810' (3.6 bbls.) very slightly gas & salt water cut mud / 1260' (4.9 bbls.) very slightly gas & mud cut salt water. IFBHP 1150 psi. FFBHP 1150 psi. 30 minutes SIP 6365 psi. HMH 9185 - 8930 psi. Positive Test. (Johnston)
- DST #13: 15,545' - 15,576' straddle test (31' Devonian dolomite). Pressured DS w/Nitrogen to 900 psi. Tool open 3 hours thru 5/8" BC, 1" TC, on 2 7/8" DS. Opened w/steady blow increased surface pressure 900 - 2000 psi in 45 minutes. Bled off Nitrogen. GTS 70 minutes @ 2.4 MMCF/D thru 20/64" choke. Gradually decreased. Spray of SW to surface 100 minutes. SWT 140 minutes @ rate 8 BSWPH. Gas flow stabilized @ 1.35 MMCF/D after 1 hour 50 minutes thru 1/4" choke w/750 psi surface pressure. Recovered 1100' (4.8 bbls.) black salty sulphur water (titrated 51,000 ppmCl⁻, pit mud 2800 ppmCl⁻). Initial Nitrogen bottom hole pressure 1885 - 3545 psi. FBHP 2365 - 2275 psi. 60 minutes FSIHP 6510 psi. HMH 7715 - 7680 psi. Inconclusive Test. (Bottom packer not holding) (Johnston)
- DST # 14: 14,927' - 15,578' (651' Mississippian, Wolfcamp & Devonian). Tool open 3 hours 15 minutes thru 5/8" BC, 5/8" TC, on 2 7/8" DS. Opened with immediate fair blow decreasing to weak in 80 minutes. TSTM. Died in 2 hours 25 minutes. Closed tool for final pressure build-up & found Chiksan joint plugged w/lost circulation material (Stardust). Pressure on DS 2850 psi. Recovered 1200' (5.3 bbls.) mud cut, black, salty, sulphur water (titrated 10,000 ppmCl⁻, pit mud 2900 ppmCl⁻). Conclusive Test. (Johnston)

Attachment
Page # 3

- DST #15: 14,927' - 15,578' (651' Mississippian, Wolfcamp, Devonian). Tool open 30 hours 35 minutes thru 5/8" BC, 5/8" TC, on 2 7/8" DS. Opened w/good blow gradually decreasing to weak. GTS 45 minutes. TSTM. MTS 1 hour 30 minutes. SWTS 2 hours. Turned thru separator after 2 hours 15 minutes. Flowed gas @ stabilized rate 960 MCFPD / black salty sulphur water @ 127 BSWPD (based on 143 BSW in 27 hours). Flowing surface pressure 450 psi. Recovered 1700' (7.5 bbls.) salty sulphur water. FBHP 1270 - 1900 psi. 1 hour 10 minutes FSIBHP 6500 psi. HWH 7570 - 7430 psi. Conclusive Test. (Johnston)
- DST # 16: 14,927' - 15,578' (451' Mississippian limestone). Tool open 16 hours 45 minutes thru 5/8" BC, 1" TC, 2" tubing. Opened w/weak blow of air increasing to strong in 30 minutes. GTS 30 minutes at rate TSTM. Blow gradually decreased to fair in 2 hours & remained fair throughout test, gas continued to flow at rate TSTM throughout test. Recovered 110' (4.4 bbls.) gas cut mud. Pit mud titrated 1700 ppmCl⁻. Recovery titrated 2400 ppmCl⁻. FBHP 510 - 475 psi. 60 minutes FSIP 1220 psi. HWH 7280 - 7065 psi. Maximum BHT 136 deg. F. Positive Test. (Johnston)

Number of hauls	<i>A. balearicum</i> (%)	<i>A. balearicum</i> + <i>A. balearicum</i> + <i>A. balearicum</i> (%)
1	100	0
2	50	50
3	33	67
4	25	75
5	20	80
6	17	83
7	14	86
8	12	88
9	11	89
10	10	90

The following information is being furnished to you for your information only. It is not to be used for any other purpose. It is not to be distributed outside your organization. It is not to be used for any other purpose. It is not to be distributed outside your organization. It is not to be used for any other purpose. It is not to be distributed outside your organization.

... ..
... ..
... ..
... ..
... ..
... ..
... ..
... ..
... ..