Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Budget Bureau No. 1004-0135
Expires August 31, 1985

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Richmond Petroleum Inc.

3. ADDRESS OF OPERATOR
2651 N. Harwood, Suite 360, Dallas, Tx 75201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1,180' FSL and 1,020' FWL (SWSW)

5. LEASE DESIGNATION AND SERIAL NO.
NM 6894

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Fed 8-26

9. WELL NO.
2

10. FIELD AND POOL OR WILDCAT
Basin Fruitland Coal G

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T32N, R8W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6,881' GR

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) Completion ☒	
(Other)		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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.)*

Completion history attached.

CONFIDENTIAL

RECEIVED
OCT 25 1989
OIL CON. DIV.
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED Steven S. Dunn TITLE Engineer DATE 10/9/89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD
OCT 19 1989
FARMINGTON RESOURCE AREA
BY

*See Instructions 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.

FEDERAL 32-8-26 No. 2

August 16, 1989 - Day No. 9
TD: 3,300' KB
Current Operation: WO Orders

Arapahoe Drilling - Rig # 2

August 17, 1989 - Day No. 10
TD: 3,300' KB
Current Operation: Rig up BOP stack, blooey lines, air compressors and choke and kill manifold. Prepared to drill out. SDON. (SSD)

Arapahoe Drilling - Rig # 2

August 18, 1989 - Day No. 11
TD: 3,392' KB
Current Operation: Drilling
Drilled 92' in last 24 hours. Wt on bit: 8,000, RPM: 56, Pump Pressure: 1,000 psi, 50 SPM. Bit #4: 6-1/4" Smith F2. Tagged cement @ 3,250'.

Rig time: Rig up to complete - 8 hrs.
Pick up DC and 3-1/2" D pipe - 4:45
Drill plug in cement - 4:15
Drilling - 6:15
Replace liner cap gasket and retainer ring - :45

Arapahoe Drilling - Rig # 2

August 19, 1989 - Day No. 12
TD: 3,700' KB
Current Operation: Rig down pit and change to blooey lines. Drilled 308 feet in last 24 hours. Wt. on bit: 8,000, RPM: 56, Pump Pressure: 1,000 psi, 56 SPM.

Rig time: Service rig - :15
Drill to T.D. - 19:15 hrs.
Pull 5 stands pipe - :15
Test well - 1:45
Rig down pit, change to blooey lines - 2 hrs.
Circulate - :30

Arapahoe Drilling - Rig # 2

August 20, 1989 - Day No. 13
TD: 3,700'
Current Operation: Washing out cement

Rig time: Rig down pits, change to blooey lines
TIH - :15
Circulate - 2 hrs
Turn on air compressors, pump 600 cu. ft. per min. blow well, work pipe - 2:15

FEDERAL 32-8-26 No. 2

Pump with air, 1500 cu. ft per min., unload hole work pipe - 6 hrs.
Pump water in hole 15 min. intervals - 2:15
Pull up 7" csg - :30
Gauge well - 1:30
TIH - :30
Clean hole - 1:30
Pump 15 Bbls water in 15 min. intervals,
Wash out coal - 6 hrs.

Arapahoe Drilling - Rig No. 2

August 21, 1989 - Day No. 14
TD: 3,700' K.B.
Current Operation: Blowing well with water and air.
Test well as follows: Pulled bit into 7" casing. Close pipe rams and tested through 3/4" positive flow choke. 17 psi after 5 min. 19 psi in one hour. Flaring dry gas. SWI 30 min. Casing pressure: 180 psi, 240 psi in 45 min. Blew casing down and TIH w/ bit. No fill on bottom. @ 11:00 p.m. pumped water @ 4 Bbls/min. and pumped air @ 1,600 CFM with two compressors. Fluctuated water pumping times to try to increase coal returns. No significant changes observed in gas rates. Continuing to blow well. (CCM)

Rig time: Blow well with H_2O and air - 1:45
Trip out 5 stands - :15
Gauge well - 4:15
Trip Back in hole - :30
Blow well with H_2O and air - 7:15
TOH - :30
Gauge well - 2:14
Blow well with H_2O and air, Staging water and various operations while blowing well - 6:30

August 22, 1989 - Day No. 15
TD: 3,700' KB
Current Operation: Gauge well.
6:00 a.m. - 11:30 a.m. Slugging water for 15 min. intervals @ 4 BPM following with 20 min. of air only. Continuous air rate of 1900 CFM. Noted increase in shale returns with bit on bottom - estimate 60% coal and 40% shale. 11:45 a.m. pulled bit to work and circulate in coal section between 3,577' K.B. and 3,608' K.B. Continuous air rate - 1900 CFM. Slugging water @ 4 BPM for 15 min. intervals, air for 20 min. Noted good increase in coal returns, shale cuttings almost stopped. Blew air 30 min. 3:00 p.m. pulled bit into 7" csg. to test well as follows: Closed blooey lines, put all flow through 3/4" positive flowchoke. Flowed one hour. Press. stabilized at 17 psi. SWI 45 min. - press. @ 240 psi. Opened well to flare. Blow until 7:30 p.m. Pressure @ 14 psi on 3/4" choke. Resumed blowing and surging until 11:30 p.m. Shut-down air equipment and released. Flow test well. Preparing to run 4-1/2"

FEDERAL 32-8-26 No. 2

liner. (CCM)
Rig time: Blow well with air and water - 5:30, Pull one stand - :15, Blow well - 3 hrs., Pull up into csg. - :15, Gauge well - 1:45, Blow well - 3:15, Load hole with H_2O, pressure up and surge - 2 hrs., TIH, wash to bottom - 2 hrs., Blow well - 1 hr., TOH - :15, Gauge well - 1 hr., Shut-in well - 1 hr., Gauge well - 2:45

Arapahoe Drilling - Rig # 2

August 23, 1989 - Day No. 16
TD: 3,700' KB
Current Operation: Rigging down. Finished testing well. Had 13 psi on 3/4" positive flowchoke. Washed bridges to bottom w/ water and circulate to clean up. TOH w/ 3-1/2" drill pipe and 4-3/4" collars and bit. Bit missing two cones. Ran in the hole w/ 4-1/2" liner and hanger as follows: 7" 23# csg. - bottom @ 3,298' K.B.

ITEM	LENGTH	DEPTH K.B.
Baker flapper valve shoe	1.30'	3697.70'
Shoe jt. 1 jt. 4.5" 11.6# csg.	19.24'	3678.46'
Brown type 1 landing collar	.92'	3677.54'
11 jts 4.5" 11.6#/ft csg.	437.66'	3239.88'
x-over from 5.5" liner bttm to 4.5" csg.	1.03'	3238.85'
Brown C.M.S. hanger pkr w/ packoff	8.11'	3230.74'
and hold downs	468.26'	
3.5" drill pipe to surface		

Rigged up BJ Titan and cement as follows: Pumped 30 Bbls water ahead of 80 sx Cl "B" cement w/ 2% CaCl. - yield 1.18 cu. ft/sk. Density 15.6 #/gal. Washed up pump and lines. Dropped plug and displaced w/ 31.5 Bbls water. Did not bump plug. Shut down. Stung out of liner hanger and reverse circulated. Did not get any cement returned to surface. Released cementers. Rig, TIH and layed down drill pipe and collars. Rigging down. (CCM)
Rig time: Gauge well - 2:30
TIH clean out bottom - 1:30
Cir hole - 2:15
Strap out of hole - 2:15
Close rams, rig up csg tools - 1:15
Pick up 4-1/2" csg - :45
TIH - 2 hrs.
Wash 90' to bttm rig up BJ Titan - 1:30
Cement w/ BJ - :30
LDDP and DC - :30
Nipple down - 3 hrs.
Rig down - 2 hrs

Arapahoe Drilling - Rig # 2

FEDERAL 32-8-26 No. 2

August 24, 1989 - Day No. 17
TD: 3,700' KB
Current Operation: Drilling rig shut down. Waiting on rig move. Wilson Service Co. ran temperature survey - found TOC @ 3,337' K.B. and PB TD @ 3,652' K.B. (CCM)

Arapahoe Drilling - Rig # 2

August 25, 1989
TD: 3,700' KB
Current Operation: Waiting on completion.

August 31, 1989
TD: 3,700' K.B.
Current Operation: Waiting on completion.

September 1, 1989
TD: 3,700' K.B.
Installed anchors and flanged tubing head. Set 5 ea. 400 Bbl frac tanks and filled w/ clean city water from Ignacio. MIRU Schlumberger. Ran dual spaced neutron, gamma ray, CCL log from PBTD @ 3,642' K.B to 3,200' K.B. SDON. (SSD)

September 2, 1989
Rigged up Smith Energy and pressure test to 3,500 psi. Held good. Rigged up Schlumberger and perforated 4.5" liner 4 shots per ft. per compensated neutron log as follows: 3,360' - 66' KB, 3,444' - 48'KB, 3,462' - 72' KB, 3,480' - 90' KB, 3,588' - 3,614' KB. 224 total holes. Rigged down perforators. Rigged up Smith Energy to frac. All fluid is cross-link Borate gel system w/ breakers as follows:

10,416 gal x-link gel pad
5,040 gal @ 1#/gal 40-70 sand
9,996 gal x-link gel pad
3,108 gal @ 1#/gal 40-70 sand
2,856 gal @ 2#/gal 40-70 sand
3,234 gal @ 3#/gal 40-70 sand
4,032 gal @ 4#/gal 12-20 sand
4,200 gal @ 5#/gal 12-20 sand
3,906 gal @ 6#/gal 12-20 sand
3,780 gal @ 7#/gal 12-20 sand
3,612 gal @ 8#/gal 12-20 sand

Well pressured up to 4,200 psi and sanded off. Final SIP after 15 min. - 1,370 psi. Total sand pumped - 118,725 lbs. Total sand in formation - 87,850 lbs. SWI. SDOWE.

September 5, 1989
TD: 3,700' K.B.
Current Operation: Preparing to move-in rig and clean out frac sand. (SSD)

FEDERAL 32-8-26 No. 2

September 6, 1989
TD: 3,700' K.B.
Current Operation: Move in Big A Well Service. Rig up unit and unload equipment. Rig up pump and pit. Unload 2-7/8" tubing on catwalk. Nipple down frac valve. Nipple up BOP's. RIH w/ 2-7/8" tubing. Clean out sand to top of liner @ approximately 3,100'. POH. SWI. SDON. (AMM)

September 7, 1989
TD: 3,700' K.B.
Current Operation: Swabbing.
Detail: Clean out frac sand to 3,666'. Pull above liner @ 3,202'. PU to swab. Made 15 runs, recovered 72 Bbls of H_2O. Last three runs, gas cut. Well making a small amount of sand. SI. SDON. (AMM)

Big A Rig #10

September 8, 1989
Drove to location to check pressure. Casing: 0, Tubing: 0. Swab well - made 43 runs. Fluid level dropped @ 2,200'. Recovered 150 Bbls H_2O. Casing pressure building. Last run casing pressure - 325 psi. Well flowed, @ 20 min. casing dropped to 200 psi. SDON. (AMM)

Big A Rig #10

September 9, 1989
Tubing pressure: 275 psi. Casing pressure: 475 psi. Bled well off. Made 7 swab runs. Well flowed for one hour. Made two swab runs - no fluid. RIH to check for fill - four foot of fill. Pick up to 3,324'. Swab well. Rig up air compressors. Blow well with air. (AMM)

Big A Rig #10

September 10, 1989
Dresser Rand circulated well @ 750 cfm - heavy mist of water. (CCM)

September 12, 1989
TD: 3,700' K.B.
Current Operation: Blow well with air compressors. Flow test well - 24.2 MCF/day. Run in hole and check for fill. No fill. Pull up and land well @ 3,329'. Nipple down BOPs. Nipple up wellhead and blow well with air. Release rig. Blow well with air until 9:00 p.m. Release air compressors. Shut-in. (AMM)

ITEM	LENGTH
2-3/8" sawtooth collar	.40
17 jts 2-3/8" EUE tubing	528.85
X over 2-3/8" + 2-7/8"	.85

FEDERAL 32-8-26 NO. 2 - cont.

90 jts 2-7/8" EUE tubing		2,788.70
	11' K.B.	3,329.80

September 13, 1989
TD: 3,700' K.B.
Current Operation: Shut-in. Waiting on surface equipment. (CCM)

September 14, 1989
TD: 3,700' K.B.
Current Operation: Shut-in. Waiting on surface equipment. Tubing pressure: 900 psi. Casing pressure: 675 psi. (AMM)

September 14, 1989
TD: 3,600' K.B.
Current Operation: Well shut-in. Casing pressure: 180 psi. (AMM)

September 15 - October 1, 1989
TD: 3,700' K.B.
Current Operation: Waiting on surface equipment. (AMM)

October 2, 1989
TD: 3,700' K.B.
Current Operation: Waiting on surface equipment, rod string and BHP. (ARM)

October 3, 1989
TD: 3,700' K.B.
Current Operation: Delivered and set up Lufkin pumping unit on location. Checked pressures: Tubing - 1,400 psi; Casing - 1,400 psi. (ARM)

October 4, 1989
TD: 3,700' K.B.
Current Operation: Waiting on downhole rod and pump. (CCM)

October 5, 1989
TD: 3,700' K.B.
Current Operation: Waiting on downhole rod and pump. (CCM)