

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE. Other instructions on reverse side.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

PATINA OIL & GAS CORPORATION

3a. Address and Telephone No.

5802 HIGHWAY 64, FARMINGTON, NM 87401

3b. Phone No. (include area code)

(505) 632-8056

4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description)

1520' FSL & 790' FEL - UL "I"
SEC. 8, T26N, R4W

5. Lease Serial No.

JICARILLA CONTRACT #119

6. If Indian, Allottee or Tribe Name

JICARILLA APACHE

7. If Unit or CA/Agreement, Name, and/or No.

8. Well Name and No.

NORTHWEST FEDERAL #4E

9. API Well No.

30-039-23578

10. Field and Pool, Or Exploratory Area

BASIN DK/BS MESA GP/MESA VERDE-MENEFEE

11. County or Parish, State

RIO ARriba COUNTY, NEW MEXICO

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

<input type="checkbox"/> Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Recomplete
<input type="checkbox"/> Alter Casing	<input type="checkbox"/> New Construction	<input type="checkbox"/> Temporarily Abandon
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal
<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Production (start/resume)	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Deepen	<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Other Pay Add

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

See attached procedure.

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

Name (Printed/Typed)
KAY S. ECKSTEIN

Title

Signature

Kay S. Eckstein

Date

August 16, 2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/ David R. Sitzler

Division of Multi-Resources

Title

Date SEP 30 2004

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

RECEIVED
BLM
04 AUG 18 AM 10:32
010 ALBUQUERQUE, N.M.

PATINA

OIL & GAS CORPORATION

Northwest No. 4E
AFE#: 112923

Directions: Take Hwy 550 south from Bloomfield toward Albuquerque to the "TeePee's". At MM28 on Hwy 537, turn left onto J6 for 5 miles. Turn right on lease road for 1 mile to location.

Location: 1520'FSL, 790'FEL, Sec 8, T26N, R4W, Rio Arriba County, NM
Lease #: Jicarilla Contract #119

Field: Basin Dakota, Gallup

API #: 30-039-235780

Spud Date: October 8, 1984; 21:30 hrs

Elevation: Elevation: 6835' GR, 6849' KB

TD: TD: 8,000' KB Driller, PBTD: 7,963' KB

Wellhead:

Tubulars:

Surface: 10 3/4" 40.5# J55 STC CSA 304'KB w/ 342 sx, circ
Intermediate: 7 5/8" 26.4# K55 STC CSA 3852'KB w/ 680 sx, circ
Production:
Liner:

Procedure to Complete Well in Point Lookout & Menefee formation:

- 1) MIRU PU. Nipple down wellhead. NU BOPE. Smother well with 2% KCl water as necessary.
- 2) TOH with 2-1/16" tubing (228 jts) and lay down.
- 3) Unseat 1-1/2" tubing and seal assembly from Baker Retrieval "D" packer SA 7350'. TOH with tubing (234 jts) and lay down. Send to Cave Enterprises for sale.
- 4) Make a decision based on appearance of laid down tubing as to the need for making a bit and scraper run to clean up casing before attempting to fish packer.
- 5) TIH w/ 2-3/8" workstring and retrieving tool. Latch on to packer and TOH with packer and tubing. (Farmington contact for Baker is Lee Whiting @ 505-325-0216)
- 6) TIH with bit and casing scraper and CO to PBTD @ 7963' to clean up for setting plugs. Liner top at 3632'.
- 7) TOH w/ bit and scraper.
- 8) Wireline set a RBP at +/- 6000' w/ +/- 10' avoiding casing collars.
- 9) Trip in hole with packer and 2 3/8" workstring to set packer at 3,800'+/-.
- 10) Circulate hole with 2% KCl.
- 11) Set packer and test tubing, casing and plug to 2,500psi with backside loaded. Also test backside to 500psi.
- 12) Trip out of hole with 2 3/8" workstring and packer.
- 13) Perforate the Point Lookout formation with 3-1/8" casing gun (use deepest penetrating jets available) with 0.38" EHD jets and 120 degree phasing as follows:

5698', 5700', 5702', 5704', 5706', 5708', 5710', 5716', 5718', 5720', 5726', 5728', 5730', 5732', 5734', 5736', 5776' and 5778' @ 1 JSPF. (Total shots = 18 holes)

All depths are from Compensated Density Neutron log dated 10-19-84
- 14) Trip in hole with packer and 3 1/2" 9.3# N80 workstring to 3,800'+/- . Set packer and load casing. Pressure up to 500psi and leave transducer on for frac job.

- 15) Rig up BJ Services and frac Point Lookout down casing. Spearhead 1000 gals 15% HCL ahead of 116,793 gallons of slickwater, 100,000 # 20/40 Ottawa sand at 45 bpm with sand staged 0.75 ppg, 1.25 ppg, 1.75 ppg and 2.00 ppg as per attached BJ procedure (Proposal # 179960157A). Maximum Treating Pressure is 5,000 psig.

Tag 0.75 ppg, 1.25 ppg stages with Iridium and 1.75 ppg and 2.00 ppg stages w/ Scandium..

Stage	Fluid		Conc (ppg)	Proppant		Stage (bbl)	Cum (bbl)
	Type	Volume (gal)		Type	Volume (bbl)		
1	15% HCl Acid	1000		Acid			
2	Slickwater	30000		Pad			
3	Slickwater	30000	0.75	100% Sand, White, 20/40	22500	22500	
4	Slickwater	34400	1.25	100% Sand, White, 20/40	43000	66500	
5	Slickwater	14000	1.75	100% Sand, White, 20/40	24500	90000	
6	Slickwater	5000	2.00	100% Sand, White, 20/40	10000	100000	
7	Slickwater	3393		Flush			100000
Total		117793					100000

Stage	Surface Treating Pressure (psig)	Rates			Volume				Stage Pump Time (mm:ss)
		Slurry (bpm)	Clear Fluid (bpm)	Prop Rate (bbl/min)	Stage (bbl)	Clear (bbl)	Stage (bbl)	Clear (bbl)	
1	326	10.0	10.0		23.8	23.8	23.8	23.8	00:02:22
2	2925	45.0	45.0		714.3	738.1	714.3	738.1	00:15:52
3	3014	45.0	43.5	1371.0	738.5	1476.6	714.3	1452.4	00:16:24
4	3072	45.0	42.8	2238.1	865.3	2341.9	819.0	2271.4	00:19:13
5	3130	45.0	41.7	3065.0	359.7	2701.7	333.3	2604.8	00:07:59
6	3159	45.0	41.3	3466.5	129.8	2831.5	119.0	2723.8	00:02:53
7	2925	45.0	45.0		80.8	2912.3	80.8	2804.6	00:01:47
Total Pump Time:									01:08:34

TREATMENT SCHEDULE:

1. Pump 1,000 gallons of 15% HCl acid.
2. Pump 30,000 gallons as pad.
3. Pump 30,000 gallons ramping proppant from 0.50 psa to 1.00 psa.
4. Pump 34,400 gallons ramping proppant from 1.00 psa to 1.50 psa.
5. Pump 14,000 gallons ramping proppant from 1.50 psa to 2.00 psa.
6. Pump 5,000 gallons holding proppant at 2.00 psa.
7. Flush 2 bbls short of top perforation.

Record ISIP, 5,10 and 15 min SIP's.

- 16) Flow back load using chokes to control flowback rate to minimize sand recovery until well dies.
- 17) Trip out of hole with 3 1/2" frac string and packer.
- 18) Wireline set a RBP @ +/- 5670'.
- 19) Trip in hole with packer and 2 3/8" workstring to 3,800'.
- 20) Load hole and pressure test plug to 2,500 psig.
- 21) Trip out of hole with 2 3/8" workstring.

- 22) Perforate the Menefee formation with 3-1/8" casing gun (use deepest penetrating jets available) with 0.38" EHD jets and 120 degree phasing as follows:

5532', 5533', 5534', 5535', 5536', 5537', 5538', 5606', 5607', 5608', 5609', 5610', 5611', 5612', 5613', and 5614'. (Total shots = 16 holes)

All depths are from Compensated Density Neutron log dated 10-19-84

- 23) Trip in hole with packer and 3 1/2" 9.3# N80 workstring to 3,800'+/- . Set packer and load casing. Pressure up to 500psi and leave transducer on for frac job.
- 24) Rig up BJ Services and frac Menefee down casing. Spearhead 1000 gals 15% HCL ahead of 116,625 gallons of slickwater, 100,000 # 20/40 Ottawa sand at 40 bpm with sand staged 0.75 ppg, 1.25 ppg, 1.75 ppg and 2.00 ppg as per attached BJ procedure (Proposal # 179960157A). Maximum Treating Pressure is 5,000 psig.

Tag 0.75 ppg, 1.25ppg stages with Iridium and 1.75 ppg and 2.00 ppg stages w/ Scandium.

Stage	Fluid		Conc. (ppg)	Proppant		Stage (bbls)	Cum. (bbls)
	Type	Volume (gal)		Type			
1	15% HCl Acid	1000		Acid			
2	Slickwater	30000		Pad			
3	Slickwater	30000	0.75	100% Sand, White, 20/40		22500	22500
4	Slickwater	34400	1.25	100% Sand, White, 20/40		43000	65500
5	Slickwater	14000	1.75	100% Sand, White, 20/40		24500	90000
6	Slickwater	5000	2.00	100% Sand, White, 20/40		10000	100000
7	Slickwater	3225		Flush			100000
Total		117625					100000

Stage	Surface Treating Pressure (psi)	Slurry (bpm)	Rates		Volume				Stage Pump Time (00:00:00)
			Clean Fluid (bpm)	Prop. Rate (lb/min)	Slurry		Fluid		
					Stage (bbls)	Cum. (bbls)	Stage (bbls)	Cum. (bbls)	
1	499	10.0	10.0		23.8	23.8	23.8	23.8	00:02:22
2	2539	40.0	40.0		714.3	738.1	714.3	738.1	00:17:51
3	2594	40.0	38.7	1218.7	738.5	1476.6	714.3	1462.4	00:18:27
4	2631	40.0	37.9	1987.6	865.3	2342.0	819.0	2271.4	00:21:38
5	2669	40.0	37.1	2724.4	359.7	2701.7	333.3	2604.8	00:08:59
6	2687	40.0	36.7	3081.3	129.8	2831.5	119.0	2723.8	00:03:14
7	2539	40.0	40.0		76.8	2908.3	76.8	2800.6	00:01:55
Total Pump Time:									01:14:29

TREATMENT SCHEDULE:

1. Pump 1,000 gallons of 15% HCl acid.
2. Pump 30,000 gallons as pad.
3. Pump 30,000 gallons ramping proppant from 0.50 ppa to 1.00 ppa.
4. Pump 34,400 gallons ramping proppant from 1.00 ppa to 1.50 ppa.
5. Pump 14,000 gallons ramping proppant from 1.50 ppa to 2.00 ppa.
6. Pump 5,000 gallons holding proppant at 2.00 ppa.
7. Flush 2 bbls short of top perforation.

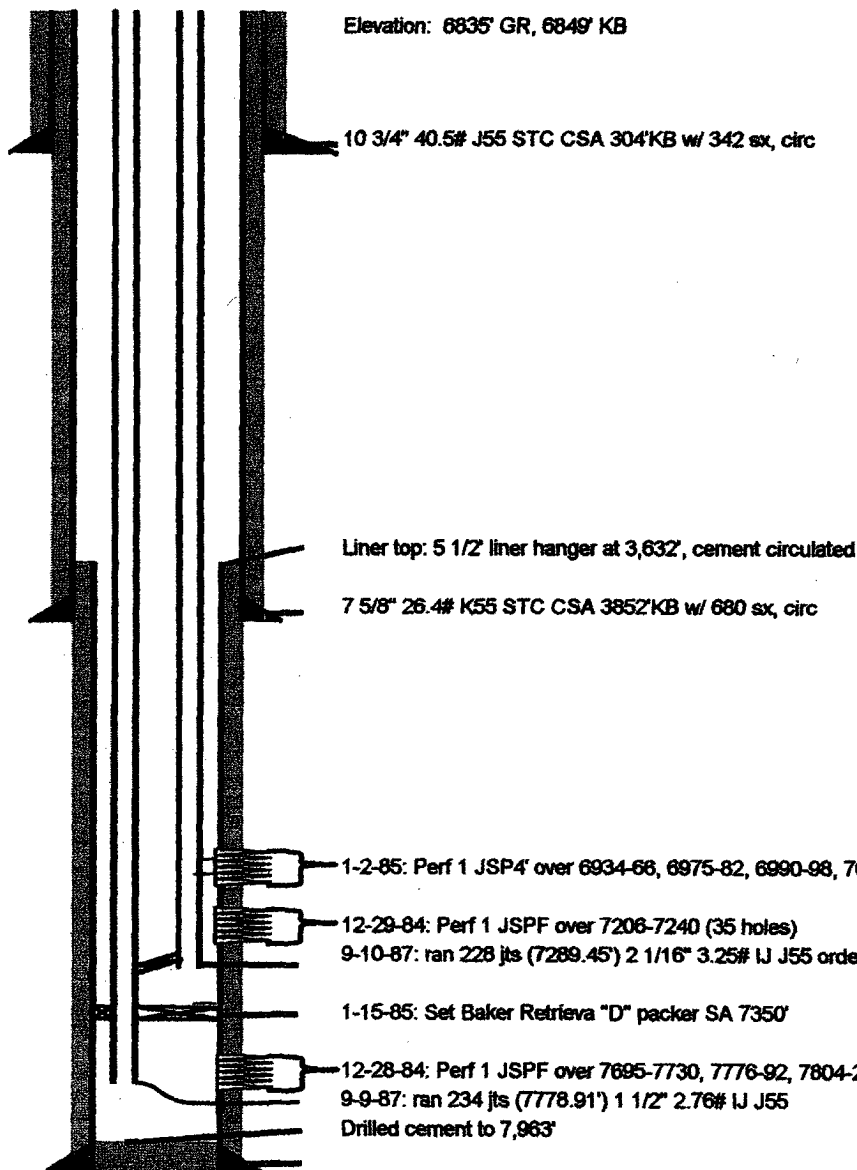
Record ISIP, 5, 10 and 15 min SIP's.

- 25) Flow back load using chokes to control flowback rate to minimize sand recovery until well dies.
- 26) Trip out of hole with 3 1/2" frac string and packer.
- 27) PU mill and TIH with DC's and tubing to CO frac sand. Continue to clean up well until sand flowback is no longer a problem.
- 28) Run after frac log over the Menefee perforations.
- 29) Rig up well to produce with plunger or rod pump as necessary for water-gas ratio and sand content.
- 30) Return well to production producing from the Menefee formation only. The well will be commingled at a later date.

PATINA

OIL & GAS CORPORATION

Northwest No. 4E
AFE#: 112923



Location: 1520'FSL, 790'FEL, Sec 8, T26N,
R4W, Rio Arriba County, NM
Lease #: Jicarilla Contract #119

Field: Basin Dakota, Gallup
Zone: Dakota, Gallup
Perfs: 7695-7888, 7206-40, 6934-7140
Spud Date: October 8, 1984; 21:30 hrs

API No: 30-039-235780

TD: 8,000' KB Driller, PBTD: 7,963' KB

- 12/29/1984 Acidize 7695-7888 w/ 1,000 gal 7 1/2% HCl
Frac 7695-7888 w/ 100,000 gal 1%KCl, 30# gel, 105,000# 20/40 sand @ 40BPM, ISIP: 2000psi, 15min: 1950psi
- 1/2/1985 Acidize 7206-7240 w/ 500 gal 7 1/2% HCl
Frac 7206-7240 w/ 40,000 gal 1%KCl, 30# gel, 40,000# 20/40 sand @ 40BPM, ISIP: 1400psi, 15min: 1250psi
- 1/3/1985 Acidize 6934-7140 w/ 1,000 gal 7 1/2% HCl
Frac 6934-7140 w/ 90,000 gal 1%KCl, 30# gel, 95,000# 20/40 sand @ 40BPM, ISIP: 1000psi