

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. JICARILLA CONTRACT #106
2. Name of Operator PATINA OIL & GAS CORPORATION		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
3a. Address and Telephone No. 5802 HIGHWAY 64, FARMINGTON, NM 87401	3b. Phone No. (include area code) (505) 632-8056	7. If Unit or CA/Agreement, Name, and/or No. 070 FARMINGTON NM
4. LOCATION OF WELL (Footage, Sec., T., R., M., or Survey Description) 845' FSL & 1065' FSL - UL "P" SEC. 26, T26N, R4W		8. Well Name and No. JICARILLA B #1A
		9. API Well No. 30-039-21610
		10. Field and Pool, Or Exploratory Area BLANCO MESA VERDE
		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		TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Fracture Treat	<input checked="" type="checkbox"/> Recomplete
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> New Construction	<input type="checkbox"/> Temporarily Abandon
<input type="checkbox"/> Final Abandonment Notice	<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 type="checkbox"/> Other _____

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 Cliffhouse recompleat procedure.



14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) KAY S. ECKSTEIN e-mail: keckstein@patinasanjuan.com	Title PRODUCTION TECHNICIAN
Signature <i>Kay Eckstein</i>	Date October 28, 2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/ David R. Sitzler	Title Division of Multi-Resources	Date DEC 1 0 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.

WMOCD

Directions: Take Hwy 550 south from Bloomfield toward Albuquerque to the "TeePee's". At MM28 on Hwy 537, turn left onto J6 for 4 miles. Turn left on J25 for 3 miles into Wildhorse Canyon to location on the right.

Location: 845'FSL, 1065'FEL, Sec 26, T26N, R4W, Rio Arriba County, NM
Lease #: Jicarilla Contract #106

Field: Blanco Mesa Verde

API #: 30-039-21610

Spud Date: August 7, 1978; 00:15hrs

Elevation: Elevation: 7075' GR, 7087' KB

TD: TD: 6080' KB Driller, PBTD: 5985' KB

Wellhead:

Tubulars:

Surface: 10 3/4" 40.5# K55 STC CSA 294'KB w/ 250 sx, circ
Intermediate: 7" 23# K55 STC CSA 3979'KB w/ 250 sx
Production:
Liner: 4 1/2" 10.5# K55 liner set from 3,734' to 6023' w/ 250sx

Procedure to Complete Well in Cliffhouse formation:

- 1) MIRU PU. Nipple down wellhead. NU BOPE. Top kill well with 2% KCl water made from Carlsbad, NM potash as necessary.
- 2) Trip out of hole with 1 1/2" tubing laying down.
- 3) Trip in hole with bit, scraper and workstring to clean up casing for setting plug.
- 4) TOH w/ bit and scraper.
- 5) Wireline set a CIBP at +/- 5600' w/ +/- 10' avoiding casing collars.
- 6) Trip in hole with packer and 2 3/8" workstring to set packer at 4,100'+/-.
- 7) Circulate hole with 2% KCl water made from Carlsbad, NM potash.
- 8) Set packer and test tubing, casing and plug to 2,500psi with backside loaded. Also test backside to 500psi.
- 9) Trip out of hole with 2 3/8" workstring and packer.
- 10) Perforate the Cliffhouse formation with 3-1/8" casing gun (use deepest penetrating jets available) with 0.38" EHD jets and 120 degree phasing as follows:

5316, 5318, 5320, 5342, 5344, 5346, 5348, 5368, 5370, 5372, 5374, 5376, 5381, 5383, 5406, 5408, 5410, 5420, 5422, 5424, 5430 and 5432. Total shots = 22 holes

All depths are from Formation Density log dated 8-13-78

- 11) Trip in hole with packer and tapered 2 7/8" 6.5# N80 and 3 1/2" 9.3# N80 workstring to 4,100'+/- . Set packer and load casing. Pressure up to 500psi and leave transducer on for frac job.

- 12) Rig up BJ Services and frac Cliffhouse down tubing. Spearhead 1000 gals 15% HCL ahead of 139,934 gallons of 60Q foamed slick 2% KCl water made with potash from Carlsbad, NM, 97,000 # 20/40 Ottawa sand and 33,000 # 20/40 Super LC sand at 40 bpm with sand ramped in 4 stages and holding the last stage at 2 ppg as per attached BJ procedure (Proposal # 179960788A). Maximum Treating Pressure is 5,000 psig.

Stage	Downhole Foam				Wellhead Rates				
	Clean Volume (gal)	Prop. Conc. (ppg)	Mitchell Quality %	Total Rate (bpm)	Total Foam (bpm)	Slender Slurry (bpm)	Clean Fluid (bpm)	Prop (lb/min)	Nitrogen (scfm)
1	1000	0.00	0.00	10.0	10.0	10.0	10.0	0.0	0
2	35000	0.00	60.00	40.0	30.7	16.0	16.0	0.0	21416
3	32000	0.75	60.00	40.0	30.6	16.8	15.5	1216.7	20699
4	40000	1.25	60.00	40.0	30.9	17.3	15.1	1967.6	20247
5	14000	1.63	60.00	40.0	31.0	17.6	14.9	2543.1	19920
6	9200	1.88	60.00	40.0	31.1	17.9	14.7	2898.4	19660
7	8000	2.00	60.00	40.0	31.1	18.0	14.6	3076.4	19574
8	1780	0.00	60.00	40.0	30.7	16.0	16.0	0.0	21420
	140980								

SYSTEM QUALITIES

Stage	Mitchell Quality						Slurry Quality						Average Specific Gravity
	Wellhead		Perforations		Formation		Wellhead		Perforations		Formation		
	N	T	N	T	N	T	N	T	N	T	N	T	
1	0	0	0	0	0	0	0	0	0	0	0	0	1.074
2	48	48	57	57	60	60	48	48	57	57	60	60	0.516
3	47	47	58	58	60	60	45	49	58	59	58	61	0.586
4	47	47	58	58	60	60	44	51	54	60	57	62	0.630
5	47	47	58	58	60	60	43	52	53	60	56	63	0.662
6	47	47	58	58	60	60	42	52	53	61	55	63	0.682
7	47	47	58	58	60	60	42	53	52	61	55	63	0.692
8	48	48	57	57	60	60	48	48	57	57	60	60	0.516

PRODUCT QUANTITIES

Stage	Totals						Proppant			
	Clean Fluid		Foam Slurry		Nitrogen		Type	Stage (lbs)	Cum (lbs)	
	Stage (bbls)	Cum (bbls)	Stage (bbls)	Cum (bbls)	Stage (Mscf)	Cum (Mscf)				
1	23.8	23.8	23.8	23.8	0.00	0.00	Acid			
2	333.3	357.1	833.3	857.1	446.21	446.21	Pad			
3	304.8	661.9	787.7	1644.9	407.63	853.85	100% Sand, White, 20/40	24000	24000	
4	381.0	1042.9	1006.2	2651.1	509.32	1363.16	100% Sand, White, 20/40	50000	74000	
5	133.3	1176.2	357.8	3008.9	178.20	1541.36	100% Sand, White, 20/40	22820	96820	
6	87.6	1263.8	238.0	3246.9	117.06	1658.45	100% Super LC, 20/40	17296	114116	
7	76.2	1340.0	206.0	3454.9	101.80	1760.25	100% Super LC, 20/40	16000	130116	
8	17.0	1357.0	42.4	3497.3	22.70	1782.94	Flush		130116	

TREATMENT SCHEDULE

Stage	Surface Treating Pressure (psi)	Proppant Concentration (ppa)		Wellhead Rates		Slurry Volume Without Nitrogen		Nitrogen		Stage Pump Time hh:mm:ss
		Form	Blind	Blind Slurry (bpm)	N2 (scfm)	(bbls)	(cum)	Conc. scf/bbl	Sol. scf/bbl	
1	1766	0.00	0.00	10.00	0	23.8	23.8	0	25	00:02:22
2	4335	0.00	0.00	16.00	21418	333.3	357.1	1339	25	00:20:49
3	4423	0.75	1.88	16.79	20699	330.6	687.7	1338	25	00:19:41
4	4462	1.25	3.13	17.28	20247	434.8	1122.5	1337	25	00:25:09
5	4485	1.63	4.06	17.64	19920	157.8	1280.4	1337	25	00:08:56
6	4496	1.88	4.69	17.91	19680	106.5	1386.9	1338	25	00:05:56
7	4502	2.00	5.00	18.03	19574	93.7	1480.7	1338	25	00:05:12
8	4334	0.00	0.00	16.00	21420	17.0	1497.6	1339	25	00:01:03
Total Pump Time:										01:20:13

TREATMENT SCHEDULE:

1. Pump 1,000 gallons of 15% HCl acid.
2. Pump 35,000 gallons as pad.
3. Pump 32,000 gallons ramping proppant from 0.50 psa to 1.00 psa.
4. Pump 40,000 gallons ramping proppant from 1.00 psa to 1.50 psa.
5. Pump 14,000 gallons ramping proppant from 1.50 psa to 1.75 psa.
6. Pump 9,200 gallons ramping proppant from 1.75 psa to 2.00 psa. (SUPER LC W/ ACTIVATOR)
7. Pump 8,000 gallons holding proppant at 2.00 psa. (SUPER LC W/ ACTIVATOR)
8. Flush 2 bbls short of top perforation.

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

- 13) Flow back load using chokes to control flowback rate to minimize sand recovery until well dies.
- 14) Trip out of hole laying down tapered frac string and packer.
- 15) Trip in hole with mill, DC's and 2 3/8" workstring to clean out frac sand. Continue to clean up well until sand flowback is no longer a problem.
- 16) Trip out of hole with 2 3/8" workstring laying down.
- 17) Rig up well to produce with plunger or rod pump as necessary for water-gas ratio and sand content.
- 18) Return well to production producing from the Cliffhouse formation only. The well will be commingled at a later date.