Form 3160- 5 (September 2001)

DEPARTMENT OF THE INTERIOR

UNITED STATES

FORM APPROVED OMB No. 1004 0135

BUREAU OF LAND MANAGEMENT Expires: Japparary 31,2004								
SUNDRY NOTICES AND REPORTS ON WELLS 5. Lease Serial No. Jicarilla Contract #119								
Do not use this form for proposals to drill or to re-enter an 71 9								
abandoned well. Use Form 3160-3 (APD) for such proposals. (2) Jicarilla Apache I								
	IPLICATE - Other Ins	tructions on	reverse	side	7. If Unit or (CA. Agreement Designation		
1. Type of Well Oil Well X Gas Well	e and No.							
2. Name of Operator		- C	ار		— НОҮТ #11	В		
PATINA OIL AND GAS (CORPORATION	<u> </u>			9. API Well			
3a. Address	ADMINICTON NIM 974	I	* ~	ide area code) 3 2-8056 ^	1 10 Field and	30-039-29256 Pool, or Exploratory Area		
5802 US HIGHWAY 64, F 4. Location of Well (Footage, Sec., T.		or 1	263-0	54-8030, C		Basin Dakota/Blanco Mesa Verde		
1270' FNL and 2280' FW	L			The state of the s	11. County o			
Sec 5 - T26N - R4W					Rio	Arriba, New Mexico		
12. CHECK APPROF	PRIATE BOX(S) TO IND	ICATE NAT	URE OF	NOTICE, REI	PORT, OR OTH	IER DATA		
TYPE OF SUBMISSION			TY	PE OF ACTIO	N			
Notice of Intent	Acidize	Deepen		Productio	n (Start/ Resume)	Water Shut-off		
	Altering Casing	Fracture Treat		Reclamat	ion	Well Integrity		
Subsequent Report	Casing Repair	New Con	struction	Recomple	ete	Other		
	Change Plans	Plug and	abandon	Temporar	rily Abandon			
Final Abandonment Notice	Convert to Injection	Plug back		Water Di	sposal			
13. Describe Proposed or Completed C	Department (clearly state all pertinen	t details including	estimated s	starting date of any	proposed work and	approximate duration thereof		
Attach the Bond under which the w following completion of the involve testing has been completed. Final A determined that the site is ready for PATINA OIL & GAS CO THE REVISED DRILLING.	ed operations. If the operation results Abandonment Notice shall be filed final inspection.) DRPORATION REQUES	its in a multiple conly after all requestry A CHAN	ompletion on irements, in NGE TO	r recompletion in a cluding reclamanti	new interval, a Fon on, have been comp	m 3160-4 shall be filed once leted, and the operator has		
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14. I hereby certify that the foregoing is Name (Printed/ Typed)	s true and correct.	1						
JEAN M. MUS		Title		REGULA	ATORY/ENG	INEERING TECH		
Signature	Mario							
THIS SPACE FOR FEDERAL OR STATE OFFICE USE								
American by	Isl Adrienne Brumle	v	T:d	Pet. Eng		Date 4 2105		
Approved by	ial Valietine Prante		Title	· ~:- UY		Date 4 Jac 105		

Approved by SI Adrienne Brumley

Conditions of approval, it 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.

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitiousor fraudulent statements or representations as to any matter within its jurisdiction.

) Distr^eict I [†] PO 80x 1980, Hobbs, NM 88241-1980

Cistrict II PO Drawer DD, Antesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

2640.00

District IV PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico Energy, Minerals & Matural Resources Depar

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

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۵,	WELL LOCATION AND ACREAGE DEDICATION PLAT 'API Number 'Pool Code 'Pool Name 72319 \ 71599 BLANCO MESAVERDE \ BAS								?	KOTA
*Property	Code		Property Name Well Number HOYT 1B							
'OGRID N	√ 0 .			CORD	*Operator ILLERA E				•	Elevation 7233'
	<u></u>			10	Surface	Location				
UL or lot no.	Section 5					North/South line	l	2280	East/West line WEST	county RIO ARRIBA
UL or lot no.	Section	11 BO Township	ttom Range	Hole L	ocation I	f Different		OM Surf	ace East/West line	County
PODE ALLOW	326	.82 Acres	SIGNE	N/2) THI	S COMPLETION JOINT HAS BE	"Consolidation Code ON UNTIL ALL EN APPROVED	INTE	ERESTS H	IAVE BEEN CO	DNSOL IDATED
1379.40°	· 4 2280'	L07	5	280 .00 '	.OT 2	LOT 1	1372.80	17 OPER I hereby containe to the to	ATOR CERT certify that the d herein is true pest of my knowler e C. / Hom	information and complete ge and belief
1320.00.		Jicar	`illa	Contra	ıct #İl9		1320.00'	Printed Action Title P/6/ Date		IFICATION
				5 -		 		notes of my superv	certify that the this plat was plo actual surveys maision, and that the to the best of	tted from field Je by me or under e same is true

5283.96

Date of Survey: JUNE 26, 2002 Signature and Seal of Professional Surveyor SON C. EDWARD SEN MEXIC FEGISITED STORESSIONAL

2640.00

Certificate Number

Hoyt #1B General Drilling Plan Patina San Juan, Inc. Rio Arriba County, New Mexico

1. LOCATION:

Est. elevation: 7233'

SESE of Section 5, T26N, R4W

Field: Blanco MV & Basin DK Surface: Jicarilla Apache Tribe Minerals: Jicarilla contract #119

2. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS (TVD):

Surface formation – San Jose

<u>Formation</u>	Estimated Formation Top (Ft)
Fruitland	3684
Pictured Cliffs**	3976
Lewis	4262
Cliff House	5648
Menefee	5782
Point Lookout***	6122
Gallup	7342
Greenhorn	8108
Graneros	8174
Dakota ***	8195
TD	8525

Legend:

- * Freshwater bearing formation
- ** Possible hydrocarbon bearing formation *** Probable hydrocarbon bearing formation
- # Possible H2S bearing formation

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing, but not to exceed 1,000 psi. See attachments for BOP and choke manifold diagrams.

Production Hole BOP Requirements and Test Plan

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11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
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Test as follows:

a)	Pipe rams:	1,000 psi (High)	250 psi (low)
b)	Choke manifold:	1,000 psi (High	250 psi (low)
c)	Choke lines:	1,000 psi (High)	250 psi (low)

All ram type preventers and related equipment will be hydraulically tested at nipple-up. They will also be retested in either of the following events:

- A pressure seal is broken.
- 30 days have elapsed since the last successful test of the equipment.

Furthermore, BOP's will be checked daily as to mechanical operating condition. All ram type preventers will have hand wheels, which will be operative and accessible at the time the preventers are installed. See attached Exhibit for details on the BOP equipment.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock (upper and lower)
- b) Full opening manually operated safety valves in the full open position, capable of fitting all drill stem connections.

4. CASING DESIGN:

Hole Data						
Interval	Bit Size (Inches)	Casing Size (Inches)	Top (Ft)	Bottom (Ft)		
Surface	13.50	9.625	0	300		
Intermediate	8.75	7.0	0	4450		
Production	6.25	4.5	4150	8525		

Casing Data							
OD (Inches)	ID (Inches)	Weight (Lbs/Ft)	Grade	Thread	Collapse (psi)	Burst (psi)	Min. Tensile (Lbs)
9.625	8.921	36.0	J55	STC	2,020	3,520	394,000
7.000	6.366	23.0	L80	LTC	3,830	6,340	435,000
4.5	4.276	11.6	N80	LTC	6,350	7,780	223,000

MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00 TENSION: 1.80

Area Fracture Gradient Range: 0.7 – 0.8 psi/foot

Maximum anticipated reservoir pressure: 2,500 psi Maximum anticipated mud weight: 9.0 ppg Maximum surface treating pressure: 5,000 psi

Float Equipment:

Surface Casing: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

<u>Intermediate Casing:</u> Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Fruitland Coal. One centralizer below stage tool and one centralizer above stage tool.

<u>Production Casing:</u> 4 1/2" whirler type cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

245 sx Type III cement with 2% CaCl₂, ½#/sx cellofakes. 100% excess to circulate cement to surface. WOC 12 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.2 ppg Slurry yield: 1.27 ft³/sack

Volume basis: 40' of 9-5/8" shoe joint 17 cu ft

300' of 13-1/2" x 9-5/8" annulus
147 cu ft
100% excess (annulus)
147 cu ft
311 cu ft

Note:

1. Design top of cement is the surface.

2. Have available 100 sx Type III cement with 2% CaCL₂ for top out purposes.

7" Intermediate Casing:

1st Stage:

165 sx of Type III cement plus additives

Slurry weight: 13.0 ppg Slurry yield: 2.00 ft³/sx

2nd Stage: (Stage tool at ±2500')

Lead: 175 sx of Type III cement plus additives

Slurry weight: 12.0 ppg Slurry yield: 2.55 ft³/sx

Tail: 60 sx of Type III cement plus additives

Slurry weight: 13.0 ppg Slurry yield: 2.00 ft³/sx

Volume Basis: 40' of 7" shoe joint 9 cu ft

4150' of 7" x 8 3/4" hole 625 cu ft 300' of 7" x 9 5/8" casing 50 cu ft 30% excess (annulus) 205 cu ft 889 cu ft

Note:

- 1. Design top of cement is surface.
- 2. Actual cement volumes to be based on caliper log plus 30%.
- 3. Intermediate TD @ ± 4450 ', cement stage tool @ ± 2500 '.

4 1/2" Production casing:

385 sx of 50/50 Type III/POZ cement plus additives

Slurry weight: 12.5 ppg Slurry yield: 1.78 ft³/sx

Volume basis: 40' of 4 1/2" shoe joint 5 cu ft
4075' of 4 1/2" x 6 1/4" hole 420 cu ft

300' of 4 ½" x 7" casing overlap
33 cu ft
200' above 4.5" liner (without drill pipe)
44 cu ft
40% excess (annulus)
182 cu ft
684 cu ft

Note:

- 1. Design top of cement is ± 3950 ' (200' above the top of the 4.5" liner w/out drill pipe).
- 2. Intermediate casing $(a) \pm 4450$ '.
- 3. Estimated TD @ ± 8525 ', estimated TOL @ ± 4150 ' (300' overlap).
- 4. Actual cement volumes to be based on caliper log plus 30%.

5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 300 feet as necessary to keep hole clean.

The intermediate hole will be drilled with a LSND mud from the base of surface casing to intermediate TD. Anticipated mud weight ranges from 8.5 - 9.2 ppg. Mud weight will be increased as required to maintain hole stability and control gas influx.

The production hole will be drilled with air or air/mist to TD.

Sufficient mud materials to maintain stable wellbore conditions (for either well control or lost circulation scenarios) will be maintained at the well site.

No chrome-based additives will be used in the mud system.

6. EVALUATION PROGRAM:

Mud logger:

From base of surface casing to TD.

Testing:

No DST is planned

Coring:

None Planned

Electric logs: Intermediate Hole:

1) DIL-GR-SP: TD to base of surface casing.

2) LDT-CNL-GR-CAL-PE: TD to base of surface casing

Production Hole:

1) No open hole logs

2) Cased hole resistivity & porosity logs

7. ABNORMAL PRESSURE AND TEMPERATURE:

H ₂ S	None
Coal	Fruitland
Minerals	None
Water	None
Static BHT	175° F
Lost Circulation	Possible
Hole Deviation	None
Abnormal Pressures	None
Unusual Drilling Problems	None

8. ANTICIPATED STARTING DATE: June, 2005

Anticipated duration: 18 days