

Farmington UNITED STATES

BUREAU OF LAND MANAGEMENT

Lease Serial No. SF 079527A

6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERMIT TO	DRILL OF	REENTEREIV	ED	6. If Indian, Allotee of	or Tribe Name
la. Type of work:	ER	ro Farmin s	TON 1	7 If Unit or CA Agree	ment, Name and No.
1b. Type of Well:Oil Well	Sin	gle Zone Multip	le Zone	8. Lease Name and W. CHAMPLIN #5 9. API Well No.	
PATINA OIL AND GAS				30-039-	29616
3a. Address 5802 US HIGHWAY 64 FARMINGTON, NEW MEXICO 87401	3b. Phone No. 505-632	(include area code) 2-8056		10. Field and Pool, or Ex BASIN DAKOT	ploratory CA/BLANCO MV
4. Location of Well (Report location clearly and in accordance with at At surface 660' FSL and 830' FWL At proposed prod. zone SAME	ny State requireme	ents.*)		11. Sec., T. R. M. or Blk SEC 25-T2	•
14. Distance in miles and direction from nearest town or post office* 21 MILES SOUTH OF DULCE, NEW MEXICO				12. County or Parish RIO ARRIBA	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of ac		- '	Unit dedicated to this we	11 123200R
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed 8650'	Depth	20. BLM/E	NA Bond No. on file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7292' GR	22. Approxim	nate date work will star 09/01/2005	t*	23. Estimated duration 18 DAYS	
	24. Attac	hments		<u>'</u>	
The following, completed in accordance with the requirements of Onsho 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		4. Bond to cover th Item 20 above).5. Operator certification	e operation ation pecific info	s form: s unless covered by an ex	•
25. Signature Muse	,	Printed/Typed) EAN M. MUSE		D	o7/17/2005
Fitte REGULATORY/ENGINEERING TECH					
Approved by (Signature) DManles a	()	Printed/Typed)		D	late 4/12/0 (
Title AFM	Office	FFO			,,,
Application approval does not wafraft or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equita	ble title to those rights	in the subj	ect lease which would enti	tle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr	rime for any per	son knowingly and wi	llfully to ma	ke to any department or a	gency of the United

*(Instructions on page 2)

MMOCD

District I PO Box 1980. Hobbs, NM 88241-198Q

·District II PC Drawer-DD, Artesia, NM 88211-0719

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

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

State of New Mexico Energy, Minerals & Natural Resources (

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

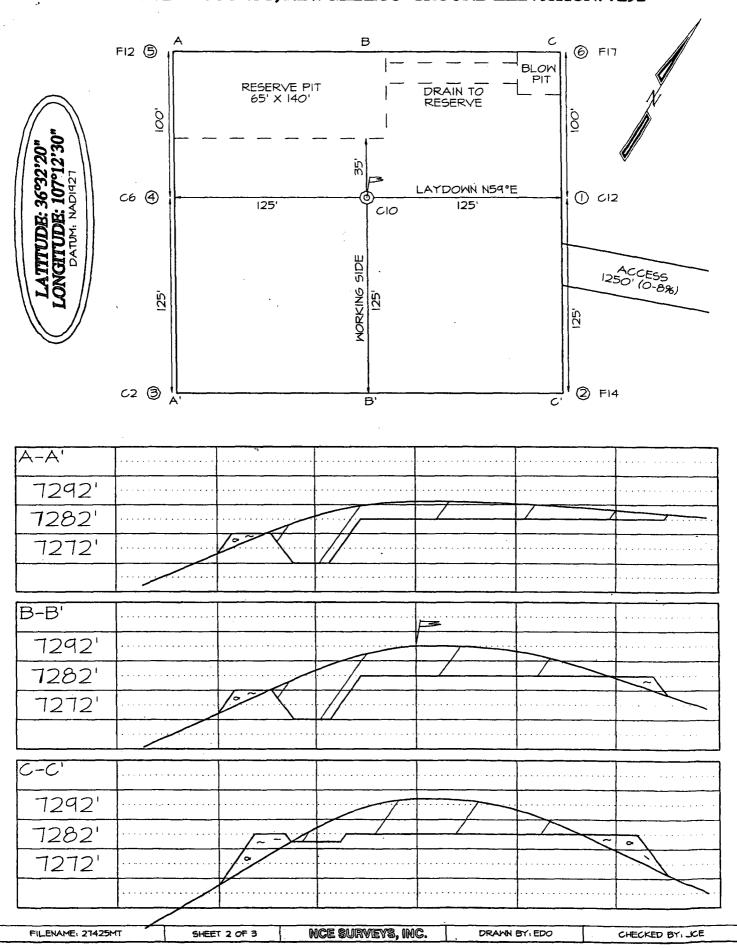
AMENDED REPORT

2005 AUG 4 PM 2 48

							-		
	WELL LOCATION AND ACREAGER DEDICATION PLAT								
ľ	'API Number 'Pool Code OTO FARMINGTON Name								
300	30-039-29616 72319 \ 71599 BLANCO MESAVERDE \ BASIN DAKOTA								
Property		*Property Name *Well Number CHAMPLIN 5C						•	
240.	-								5C
'0GRID'I 17325	I			PATTN	"Operator Δ ΛΤΙ & GΔ9	Name 5 CORPORATI	ΩN		Flevation 7292
17020	,,,				· · · · · · · · · · · · · · · · · · ·				7232
UL or lot no.	Section	Township	Range	Lot Idn	¹⁰ Surface L	_OCATION	Feet from the	East/West line	County
М	25	27N	4W		660	SOUTH	830	WEST	RIÓ ARRIBA
	1				ocation If		From Sur		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County.
12 Dedicated Acres			5/2	AK.	19 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		
	320	0.0 Acres		1					
NO ALLO	WABLE W	ILL BE AS	SSIGNEI NON-ST) TO TH ANDARD	IS COMPLETIC UNIT HAS BE	N UNTIL ALL EN APPROVED	INTERESTS BY THE DIV	HAVE BEEN CO	DNSOLIDATED
. 00.08		La Di	52	76.70 M/V 25			I heret contain to the Signature Printed Title Date Date 18 SURV I hereby shown on notes of my super and corr Date C Signature	2/47/	information and complete dige and belief Muse English English IFICATION well location tied from field de by me or under e same is true my belief. RIL 11, 2003 essional Surveyor
830'	099		52	273.40			JAS	ADPESSION C. E.	DWARDS 15269

Office	State of New Mexico	Form C-103
District 1	rgy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II	OIL CONSERVATION DIVISION	30-039-29616
1301 W. Grand Ave., Artesia, NM 88210		5. Indicate Type of Lease
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STATE FEE
District IV	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM		
87505	ICES AND REPORTS ON WELLS	7 Langa Nama or Unit Agraement Nama
	OSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
	CATION FOR PERMIT" (FORM C-101) FOR SUCH	CHAMPLIN
PROPOSALS.)		8. Well Number #5C
1. Type of Well: Oil Well	Gas Well 🛛 Other	
2. Name of Operator	TO ONLY SHEET	9. OGRID Number 17352
PATINA SAN JUAN, INC.		
3. Address of Operator	The state of the s	10. Pool name or Wildcat
5802 US HIGHWAY 64, FARM	INGTON, NM 87401	BASIN DK/BLANCO MV
4. Well Location		
Unit Letter <u>B</u>	: 660 feet from the SOUTH line and	830 feet from the WEST line
Section 25	Township 27N Range 4W N	MPM RIO ARRIBA County
	11. Elevation (Show whether DR, RKB, RT, GR, el	c.)
	7292'GR	
Pit or Below-grade Tank Application		>200
Pit type X reserve Depth to Grou		* I
]		
Pit Liner Thickness: 12	mil Below-Grade Tank: Volume bbls; Const	ruction Material reinforced polyethylene plastic
12. Check	Appropriate Box to Indicate Nature of Notice	e Report or Other Data
12. 4		, 110poil of 0 unit 2 unit
NOTICE OF I	NTENTION TO: SU	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK		
	- <u> </u>	
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PATINA OIL & GAS CORPORATION CHAMPLIN #5C 66(*\$60 830' FWL, SECTION 25, 1 /100 AW, NMPM RIO ARRIBA COUNTY, NEW MEXICO GROUND ELEVATION: 7292'



Champlin #5C General Drilling Plan Patina San Juan, Inc. Rio Arriba County, New Mexico

1. LOCATION:

Est. elevation: 7292'

NWNE of Section 25, T27N, R4W

Field: Blanco MV & Basin DK

Surface: US Forest

Minerals:

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	3727
Pictured Cliffs**	4078
Lewis	4308
Cliff House	5678
Menefee	5919
Point Lookout***	6220
Gallup	7305
Greenhorn	8195
Graneros	8261
Dakota ***	8300
TD	8650

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

```
11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
```

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	4500		
Production	6.25	4.5	4200	8650		

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

 Total
 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:

155 sx of Type III cement plus additives

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

 2^{nd} Stage: (Stage tool at ± 2500 ')

Lead: 105 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

 4200' of 7" x 8 3/4" hole
 631 cu ft

 300' of 7" x 9 5/8" casing
 50 cu ft

 30% excess (annulus)
 189 cu ft

 Total
 879 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 @ ± 4500 ', cement stage tool @ ± 2500 '.

4 1/2" Production casing:

390 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
4150' of 4 ½" x 6 1/4" hole	426 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)	184 cu ft
Total	692 cu ft

Note:

- 1. Design top of cement is ± 4000 ' (200' above the top of the 4.5" liner w/out drill pipe).
- 2. Intermediate casing @ ±4500'.
- 3. Estimated TD @ ± 8650 ', estimated TOL @ ± 4200 ' (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

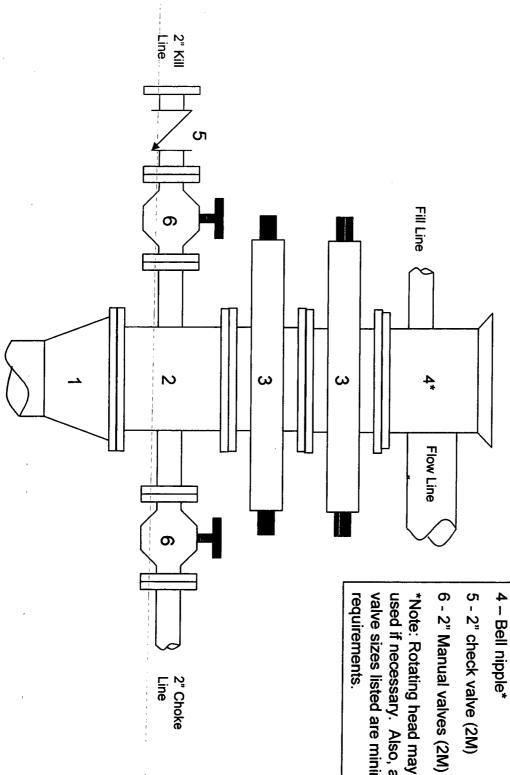
7. ABNORMAL PRESSURE AND TEMPERATURE:

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

ANTICIPATED STARTING DATE: September, 2005 8.

Anticipated duration: 18 days

2000 psi BOP stack Minimum requirements

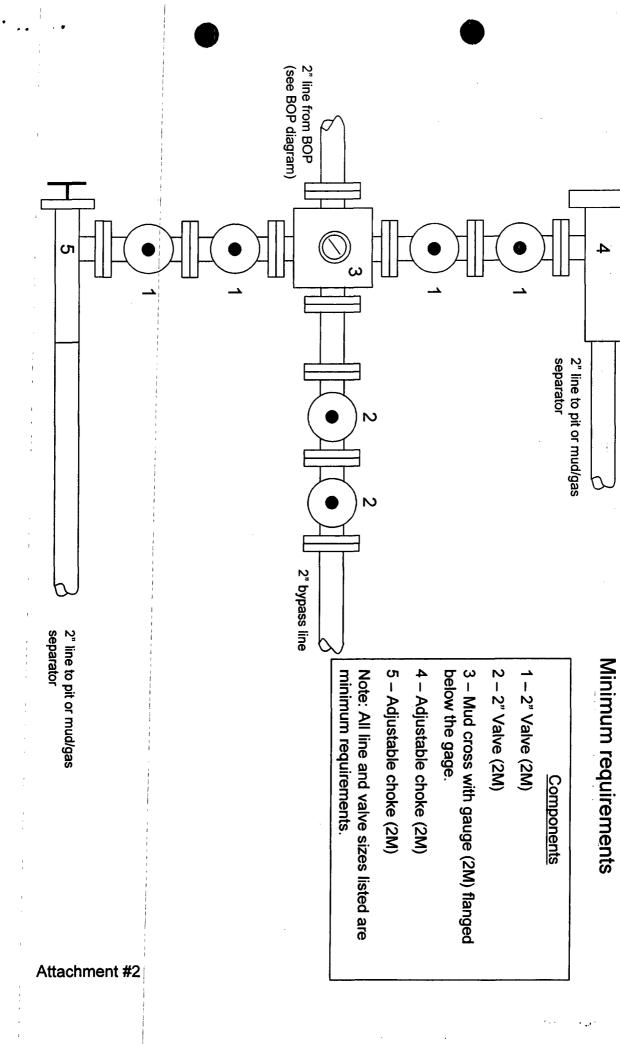


Components

- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)
- 3 A double or two single rams with blinds on bottom 11" (2M)

valve sizes listed are minimum used if necessary. Also, all line and *Note: Rotating head may also be

Attachment #1



2000 psi Choke Manifold