District V PO Box 1980, Hoobs, NM 88241-1980

District II

811 South First, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-101 Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office State Lease - 6 Copies

Fee Lease - 5 Copies

### 2040 South Pacheco, Santa Fe, NM 87505 AMENDED REPORT APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address. <sup>1</sup> OGRID Number Amoco Production Company 000778 P.O. Box 800 <sup>3</sup> API Number Denver, CO 80201 30-045-29367 <sup>4</sup> Property Code 5 Property Name \* Well No. 13506 State Gas Com 40 <sup>7</sup> Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 30N 16 11W 1980 North 2505 West San Juan <sup>8</sup> Proposed Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Proposed Pool I 16 Proposed Pool 2 72319 71599 Blanco Mesaverde Basin Dákota W/320 Work Type Code 12 Well Type Code 13 Cable/Rotary 14 Lease Type Code 15 Ground Level Elevation 56921 Rotary 14 Multiple 17 Proposed Depth " Formation 1 Contractor 20 Spud Date Yes 6724**'** Dakota/Mesaverde Aztec 6/1/96 <sup>21</sup> Proposed Casing and Cement Program Hole Size Casing Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC 12.25" 9.625" 36# 120' 106 cu.ft. surface 8.75" 7.000" 23# 2389**'** 589 cu.ft. surface 6.25" 3.500" 9.3# 6724' 880 cu.ft. 2080 Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. RECEIVE OUL GON. DIV 23 I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. Signature: Approved by Printed name: & GAS INSPECTOR DIST Title: Expiration Date P 199 Staff Assistant Conditions of Approval: 4016 6-104 Date Phone: 4/10/96 (303) 830-4988

Attached

### C-101 Instructions

23

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

# IF THIS IS AN AMENDED REPORT CHECK THE BOX LABLED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- Operator's OGRID number. If you do not have one it will be assigned and filled in by the District office.
- 2 Operator's name and address
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- B The proposed bottom hole location of this well at TD

## 9 and 10 The proposed pool(s) to which this well is beeing drilled.

- 11 Work type code from the following table:
  - N New well
  - E Re-entry
  - D Drill deeper
  - P Plugback
  - A Add a zone
- 12 Well type code from the following table:
  - O Single oil completion
  - G Single gas completion
  - M Mutiple completion
  - I Injection well
  - S SWD well
  - W Water supply well
  - C Carbon dioxide well
- 13 Cable or rotary drilling code
  - C Propose to cable tool drill
  - R Propose to rotary drill
- 14 Lease type code from the following table:
  - S State
  - P Private
- 15 Ground level elevation above sea level
- 16 Intend to mutiple complete? Yes or No
- 17 Proposed total depth of this well
- 1B Geologic formation at TD
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement
- 22 Brief description of the proposed drilling program and BOP

program. Attach additional sheets if necessary.

The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

District I PO Box 1960, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pacheco, Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number				<sup>1</sup> Pool Code				<sup>3</sup> Pool Name					
30-045-29367			7	,	72319	9		Blanco Mesav	-				
<sup>4</sup> Property Code			,	S Desired N							1 10 10 21		
1.3506 St.				te Ga	as Co		• •					Well Number	
OGRID No.					40 00		Operator	Name	<del></del>			40	
000778		Amo	co P	rodu	ction	n Company						* Elevation	
		<u> </u>						Location			56	692 <b>'</b>	
UL or lot no.	Section	Townshi	- 1 -					<del>,</del>					
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F	16	30N		1W		1980		North	2505	West		San Juan	
				Bott	om I	Hole Loca	ition I	f Different Fro	om Surface			<del></del>	
UL or lot no.	Section	Township		ange	Lot le			North/South line	Feet from the	East/West	line	County	
" Dedicated Acr	" Joint	or Infill	4 Cons	olidation	Code	" Order No.		<u> </u>		<u> </u>			
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### New Mexico Oil Conservation Division C-102 Instructions

IF THIS IS AN AMENDED REPORT, CHECK THE BOX LABLED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the appropriate OCD district office. Independent subdivision surveys will not be acceptable.

- 1. The OCD assigned API number for this well
- 2. The pool code for this (proposed) completion
- 3. The pool name for this (proposed) completion
- 4. The property code for this (proposed) completion
- The property name (well name) for this (proposed) completion
- 6. The well number for this (proposed) completion
- 7. Operator's OGRID number
- 8. The operator's name
- 9. The ground level elevation of this well
- 10. The surveyed surface location of this well measured from the section lines NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD unit letter.
- Proposed bottom hole location. If this is a horizontal hole indicate the location of the end of the hole.
- The calculated acreage dedicated to this completion to the nearest hundredth of an acre
- Put a Y if more than one completion will be sharing this same acreage or N if this is the only completion on this acreage
- 14. If more than one lease of different ownership has been dedicated to the well show the consolidation code from the following table:
  - C Communitization
  - U Unitization
  - F Forced pooling
  - O Other
  - P Consolidation pending

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION!

- Write in the OCD order(s) approving a non-standard location, non-standard spacing, or directional or horizontal drilling
- 16. This grid represents a standard section. You may superimpose a non-standard section over this grid. Outline the dedicated acreage and the separate leases within that dedicated acreage. Show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions.

(Note: A legal location is determined from the perpendicular distance to the edge of the tract.) If this is a high angle or horizontal hole show that portion of the well bore that is open within this pool.

Show all lots, lot numbers, and their respective acreage.

If more than one lease has been dedicated to this completion, outline each one and identify the ownership as to both working interest and royalty.

- The signature, printed name, and title of the person authorized to make this report, and the date this document was signed.
- 18. The registered surveyors certification. This section does not have to be completed if this form has been previously accepted by the OCD and is being filed for a change of pool or dedicated acreage.

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

District IV

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back

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☐ AMENDED REPORT

	API Numb	M	ELL LU	CAT	ION AN	ID AC	REAGE DED	ICATION P	LAT		
		<sup>1</sup> Pool Code				³ Pool N	ame				
	9367	7	1599		В	asin Dakota	-				
<sup>4</sup> Property	,				* Property		-		•	Well Number	
1350			S	tate	Gas Cor	n			į		40
'OCRID	No.					Operator	Name				* Elevation
000778		An	noco Pro	duct:	ion Comp	any	•			56	592 <b>'</b>
···					10 S	urface	Location ·			<u> </u>	
UL or lot no.	Section	Towashi	p Range	Lot I		rom the	North/South line	Feet from the	East/Wes	Lline	County
F	16	30N	11W		19	080	North	2505	West		San Juan
			11 Bott	tom 1	Hole Loc	ation I	f Different Fro		1		Dan Juan
UL or let no.	Section	Township	Range	Lot le		rom the	North/South line	Feet from the	East/West	line	County
12 D. C	1.5.4	<u> </u>	_l					<u></u>	]		1
" Dedicated Acro $\sqrt{320}$	" Joint	or Infil '	<sup>4</sup> Consolidation	a Code	11 Order No	•	,				<del>1</del>
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			Ì			1		Title			<del></del>
	1					1		Date 4/	/3/96	<del></del>	
				<u> </u>							
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## AMOCO PRODUCTION COMPANY

DRILLING and COMPLETION PROGRAM Lease/Well#: State Gas Com #40 County: New Mexico San Juan Surface Location: 1980' FNL & 2505' FWL of Section 16, T30N, R11W Former name: Field: OBJECTIVE: Dual Mesa Verde & Dakota METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKER TYPE OF TOOLS DEPTH OF DRILLING Actual GL-----Estimated KB 5704 5692 Ground Level - TD Marker Rotary Depth (ft.) SS Elev. (ft. LOGGING PROGRAM Ojo Alamo 678 5,026 **TYPE** DEPTH Kirtland 867 4,837 Fruitland Coal 1,839 3,865 Triple Combo (SP-GR-Cal-HRI-SDL-DSN-ML) Production hole PC \* 2.089 3.615 only Lewis Shale 2,239 3,465 Cliff House 3.654 2,050 Menefee Shale \* 3,879 1,825 Point Lookout \* 4,404 1,300 4,734 Mancos 970 Gallup 5,655 49 Logging Program Remarks: Greenhorn 6.400 -696 Graneros 6,458 -754 Dakota 6.514 -810 TOTAL DEPTH 6,724 -1,020 \* Possible pay \*\*Probable completion Ojo Alamo is possible usable water SPECIAL TESTS DRILL CUTTING SAMPLES DRILLING TIME TYPE DEPTH INTERVAL, ETC **FREQUENCY DEPTH FREQUENCY DEPTH** None Geolograph Int - TD Remarks: Remarks: Mud Logging Program: One man unit to pick TD Coring Program: None MUD PROGRAM: Approx. Interval Type Mud Weight, #/gal Vis, sec/qt W/L, cc's/30 min. 0' - 2239' (1) (2) Water 8.6 - 9.2Sufficient to clean hole N/C 2239' - TD (3) Air/Mist Mud Program Remarks: 1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency. 2 - If required to mud up, mud up with a LSND designed for good hole cleaning. 3 - If required to mud up, mud up with a LSND designed for good hole cleaning, API WL between 10-15.

CASING PROG	SKAM:	
Casing String	Estimated Depth	Casing Size

Hole Size Landing Point, Cement, Etc

Conductor 120 9-5/8" Surface

2,389 8.75" 1, 2 6,724 3-1/2" 6.25"

### Casing Program Remarks:

Production

- Circulate cement to surface.
- 2 Set casing a minimum of 150' into the Lewis Shale
- 3 Circulate cement a minimum of 300' into the surface casing overlap.

## **GENERAL REMARKS:**

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:		Logging program re	eviewed by:		
PREPARED BY:		APPROVED:		APPROVED:	
Webb/Ovitz					
Form 46 7-84bw		For Production Dep	ot	For Exploration Dept	
Date: 3/29	9/96	Rev. Date:	4/2/96 8:06	File	statgc40.xlw

# **CEMENTING PROGRAM**

**Dual Mesaverde - Dakota** 

rn

Well Name:

State Gas Com #40

Location: County:

Sec 16, T30N, R11W San Juan

State:

New Mexico

Field:

API No.

Well Flac

Formation: KB Elev. (est.)

Dakota

GL Elev. (act.)

5704 ft. 5692 ft.

Casing	Progra	m:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Circ. Out (bbl.)
Surface	120	12.25	9.625	8R, ST&C	Surface	NA	
Intermediate	2,389	8.75	7.000	8R, ST&C	Surface	NA	
Production	6,724	6.25	3.500	8R, EUE	2080	NA	

Casing Propertie	<b>s</b> :	(No Safety Fac	tor Included)					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity	Drift
	(in.)	(lb/ft.)		(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.)	(in.)
Surface	9.625	36	J-55	3520	2020	394	0.0773	8.765
Intermediate	7.000	23	J-55	4360	3270	284	0.0393	6.241
Production	3.500	9.3	J-55	6980	7400	142	0.0087	2.867

**Mud Program:** 

Apx. Interval Mud Type

Mud Weight

Recommended Mud Properties Prior Cementing:

(lb/gal)

PV < 20 ΥP < 10

0 - 3053 3053 - TD

(ft.)

Water Air/Mist 8.6 - 9.2 NA

Fluid Loss < 15

Cementing	Program:	

Surface	Intermediate	Production
75	60	30
NΑ	NA	20
70	100	175
NA	Rotate/Reciprocate	Rotate/Reciprocate
6	6	4
6	6	4
200	2000	2000
40	80	40
NA	NA	NA
0.5	1.5	1
NA	NA	NA
1,6,7	1,6,8	2,4,6
	75 NA 70 NA 6 6 200 40 NA 0.5	75 60 NA NA 70 100 NA Rotate/Reciprocate 6 6 6 200 2000 40 80 NA NA 0.5 1.5 NA NA

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

### Notes:

- \*\*\* Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- \*\*\* Do not wash up on top of plug. Wash pumps and lines. We want to do rigless completions.

## **CEMENTING PROGRAM**

Dual Mesaverde - Dakota

rn

Surface:

Preflush

10 bbl.

Fresh Water

Slurry 1

TOC @ surface

90 sk

Standard Cement

+ 2% CaCl2 (not mixed)

or 1.5 cu. yard Ready Mix

**Slurry Properties:** 

density

(lb/gal)

yield (ft3/sk)

water (gal/sk)

slurry 1

15.60

1.18

5.20

Casing Equipment:

(Halliburton)

9 5/8", 8R, ST&C

1 Top Wooden Plug

Intermediate:

Preflush

20 bbl.

Mud Flush

20 bbl.

100 sk

Fresh Water + dye marker

Lead

Slurry 1 TOC @ surface 50/50 Standard Cement/Blended Silicalite

460 cu. ft.

129 cu. ft.

106 cu. ft.

+ 02% gel (total) + 0.4% Halad-344 + 02% CaCl2

+ 1/4 lb/sk flocele

Tail

slurry 2

Standard Cement

+ 0.4% Halad-344

+ 0.4% CFR-3 + 5 lb/sk gilsonite

+ 1/4 lb/sk flocele

**Slurry Properties:** 

density (lb/gal)

yield (ft3/sk)

water (gal/sk)

slurry 1 slurry 2 12.00 15.11

2.03 1.29

11.45 5.40

Casing Equipment:

(Halliburton)

7.0", 8R, ST&C

1 Type Regular Guide Shoe

1 Super Seal II Float Collar

1 Weld A

14 S-4 Centralizer

1 ea. on 1st 12 joints, 1 ea. above and below Ojo Alamo

1 Top Rubber Plug

Version No. 1 4/10/96 ~ME3E37.XLS

## **CEMENTING PROGRAM**

rn

880 cu. ft.

### **Dual Mesaverde - Dakota**

Production:

Preflush

10 bbl. 5 bbl.

Chemical Wash Fresh Water

**Lead Cement** 

Slurry 1 TOC @ 2080 ft.

50/50 Std. Cmt/Poz A + 2% gel (total) + 5 lb/sk gilsonite

+ 0.4% Halad-344

+ 1/4 lb/sk flocele

**Slurry Properties:** 

density (lb/gal)

yield (ft3/sk)

water (gal/sk)

slurry 1

13.50

1.32

5.59

Note:

The job should be pumped at 4 bpm max rate. Do not exceed 2 bpm on displacement. Slow to 2 bpm for the displacement. Displace with 2% KCl or 0.2% Clay Fix II water. This is to be a rigless completion. Wash pumps and lines before displacing.

Casing Equipment:

Halliburton

3 1/2", 8R, EUE, (no need to cut long pin)

1 Super Seal II Float Shoe

20 S-4 Fluidmaster Centralizer ( 3 1/2" x 6 1/4")

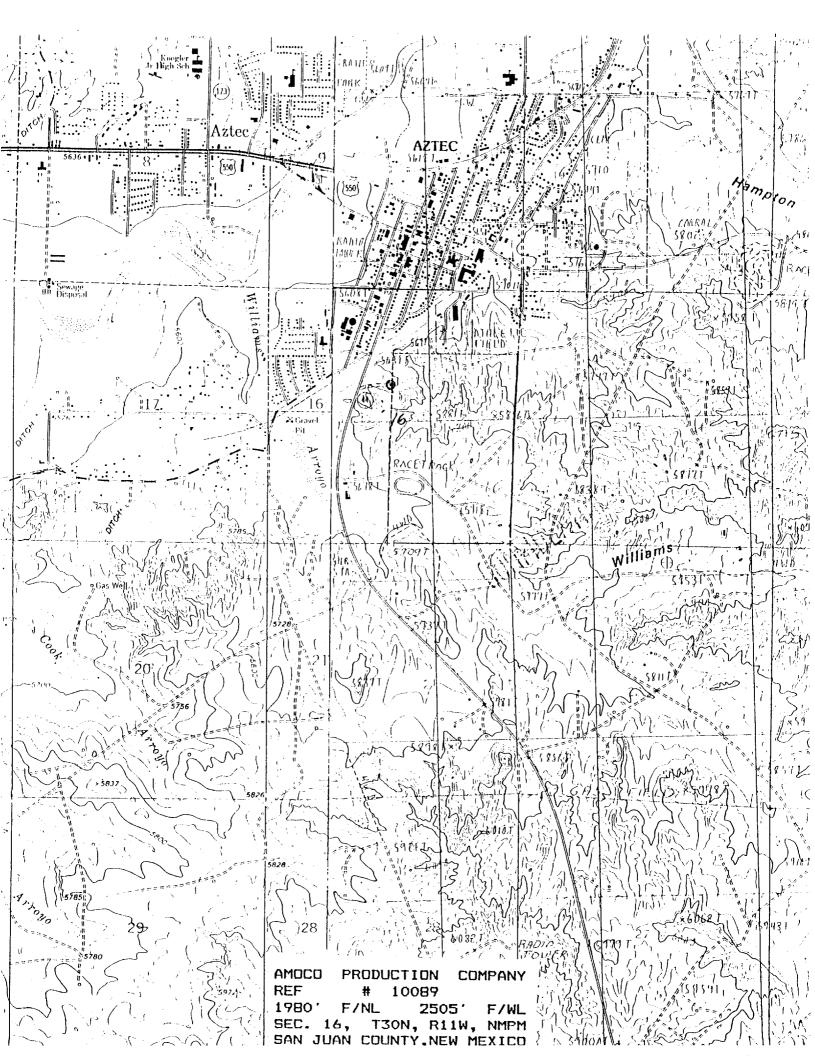
1 Lock Clamp

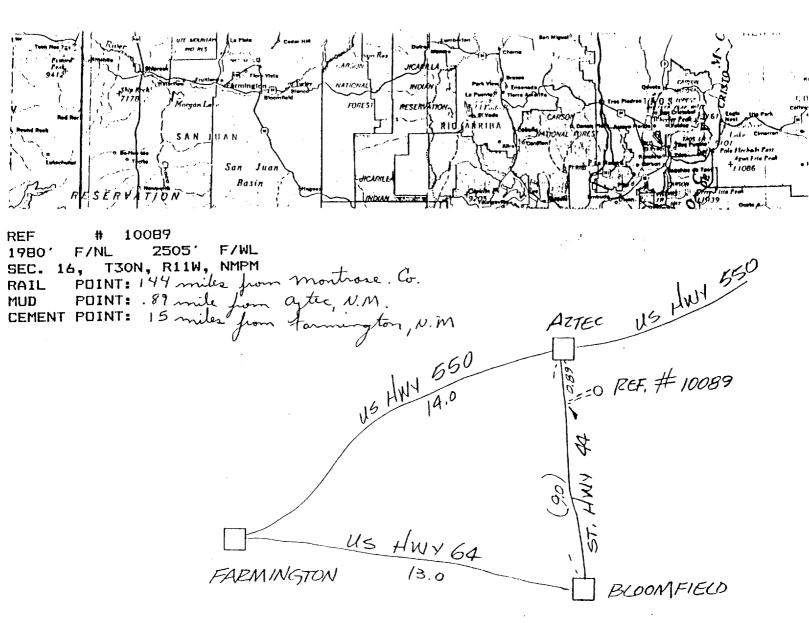
1 Weld A

1 Omega Latch Down Plug and Baffle

1st 10 centralizers every other joint,

then 1 every 10th joint.





### **BOP Test Pressure**

# **Amoco Production Company**BOP Pressure Testing Requirements

Lease/Well#:

State Gas Com #40

County:

San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	678		
Kirtland	867		
Fruitland Coal	1,839	700	295
PC	2,089	500	40
Lewis Shale	2,239		
Cliff House *	3,654	1200	396
Menefee Shale *	3,879		
Point Lookout *	4,404	1700	731
Mancos	4,734		
Gallup	5,655		
Greenhorn	6,400		
Graneros	6,458		
Dakota	6,514	1800	367

<sup>\*\*</sup> Note: Determined using the following formula: ABHP - (.22\*TVD) = ASP

Requested BOP Pressure Test Exception: 750