# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD I	Hobbs
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FORM APPROVED OMB NO. 1004-0135 1, 2010

	E	xpires:	July	31
Lease	Serial	No.		

SUNDRY Do not use thi abandoned we	NOTICES AND REPO s form for proposals to l. Use form 3160-3 (API	RTS ON WE drill or to re- D) for such p	ELLS enter an BBS ( roposals.	OCD COS	NMNM110835 6. If Indian, Allottee of	or Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	tions on rev	erse MAK 3 (	701	7. If Unit or CA/Agree	ement, Name and/or No.
Type of Well     ☐ Gas Well ☐ Oth	er		RECE	IVED	8. Well Name and No. RESOLUTE BTO FEDERAL COM 1H	
Name of Operator YATES PETROLEUM CORPO	Contact: DRATIONE-Mail: NSAIZ@Y/	NAOMI G SA ATESPETROLI	IZ EUM.COM		9. API Well No. 30-025-42214-00-X1	
3a. Address 105 SOUTH FOURTH STREE ARTESIA, NM 88210	T	3b. Phone No. Ph: 575-74	(include area code 8-4211	:)	10. Field and Pool, or WC-025 G08 S	
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description,	)			11. County or Parish,	and State
Sec 12 T25S R32E NENE 508 32.090808 N Lat, 103.371669	NL 440FEL W Lon				LEA COUNTY,	NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	) INDICATE	NATURE OF	NOTICE, RE	PORT, OR OTHE	R DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
Notice of Intent     ■	☐ Acidize	☐ Deep	en	☐ Production	on (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing ☐ Fra				tion	■ Well Integrity
☐ Subsequent Report	□ New	Construction	ruction		Other	
☐ Final Abandonment Notice	□ Change Plans	Plug	and Abandon	□ Tempora	rily Abandon	Change to Original A PD
	☐ Convert to Injection	Plug	Back	☐ Water D	isposal	
13. Describe Proposed or Completed Op If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for f	ally or recomplete horizontally, it will be performed or provide operations. If the operation re- andonment Notices shall be file	give subsurface the Bond No. or sults in a multipl	locations and meas file with BLM/BL completion or rec	ured and true ver A. Required subs completion in a ne	tical depths of all pertir sequent reports shall be ew interval, a Form 316	nent markers and zones. filed within 30 days 60-4 shall be filed once
Yates Petroleum Corporation changes as per the attached a	and below:				_	
It is requested to move our Bhattached along with the directi	IL to 330' FSL and 440' F onal plan.	EL, 12-25S-3	2E, Unit P. The	signed C-102	is ODROVE	$D_{\gamma}$
Thank you.	·			1	APPRIO	2015
SEE ATTACH CONDITIONS	ED FOR OF APPROVAL				MAR 10 FAN OF LAND	MANAGEMENT 10 OFFICE
14. Thereby certify that the foregoing is	true and correct. Electronic Submission # For YATES PETF mmitted to AFMSS for pro	ROLEUM COR	PORATION, sen	t to the Hobbs	System	
Name (Printed/Typed) NAOMI G		cessing by Eb		PLANNING T	•	
				<u> </u>		<del> </del>
Signature (Electronic S	Submission)		Date 03/13/2	2015		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE US	SE 	
Approved By EDWARD FERNAN			TitlePETROL	EUM ENGINE	ER	Date 03/16/2015
Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to conduct the conduction of the	titable title to those rights in the		Office Hobbs		KE	

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 to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*



DISTRICT I 1625 M. Franch Dr., Höbbs, NM 88240 Phone (675) 303-0101 Par (670) 303-0700 DISTRICT H 1301 W. Grand Ascence, Artesia, NM 886

1301 W. Grand Avenue, Arteula, NH 88210 Phone (676) 746-1203 Cax: (575) 740-9720 DISTRICT III

1000 Rio Brazos Rd., Azbec, NM 87410 Phona (505) 334-5170 Fer: (505) 334-5170 DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87605 Phone (505) 476-3650 Fer: (506) 470-3462 State of New Mexico Energy, Minerals and Natural Resources Department Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

### OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT

API Number	Pool Code	Pool Name	e .
30-025-42214	97903	WG-025 G08S253235G; Lowe	er Bone Spring
Property Code	P	Well Number	
313766	RESOLUT	1H	
OGRID No.	0	perator Name	Elevation
025575	YATES PE	TROLEUM CORP.	3522'

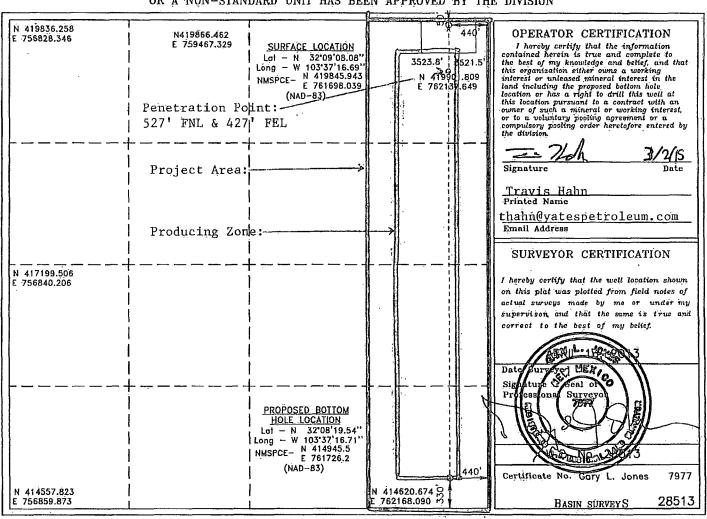
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	12	25 S	32 E		50	NORTH	440	EAST	LEA

## Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range Lot Idn		Feet from the	North/South line	Feet from the	East/West line	County	
P	12 25 S 32 E		}   	330	SOUTH	440	EAST	LEA		
Dedicated Acre	Dedicated Acres   Joint or Infill   Consolidation Code   Order No.									
160										

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



#### Resolute BTO Federal #1H

Yates Petroleum Corporation respectfully requests to make the following changes to the approved APD:

## **Contingency Intermediate Cement Design:**

We would like to request that the cement design approved in APD be our primary cement design and what follows will be if hole conditions warrant:

DV/Packer Stage tool will be placed at approx. 3000'-3500' (cement volumes will be adjusted per tool placement)

Stage I: Lead w/455sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx Class C (YLD 1.34 WT 14.8, 6.23 gal/sk) 100% excess TOC=3000'

Stage II: Lead w/800sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) tail w/210sx Class C (YLD 1.34 WT 14.8, 6.23 gal/sk) 100% excess TOC=0'

#### Pilot Hole:

We request to drill our pilot hole to a depth of 12,400' to evaluate the top of the Wolfcamp formation. The pilot hole will be drilled with an 8 %" bit to TD. Well will then be plugged back with a 600' isolation plug on bottom from approx. 12,400'-11,800'. We will place a 600' kick off plug from approx. 10,800'-10,200'.

#### **Production:**

Well will be kicked off at approx. 10,523' and directionally drilled at 12 degrees per 100' with an 8 %" bit to approx. 11,276' MD (11,000' TVD). Lateral will then be drilled with an 8 %" bit to approx. 15,696' MD (10,970' TVD). Casing weight and grade will remain the same.

#### **Production Cement:**

It is requested to cement the production string in a single stage as follows:

Lead w/ 610sx LiteCrete (YLD 2.85, WT 9.5, 8.9 gal/sk) Tail w/1450sx PVL (YLD 1.36, WT 13.5, 6.3 gal/sk) TOC approx. 4400'. Excess calculated at 35%.

#### **Production Cement Contingency:**

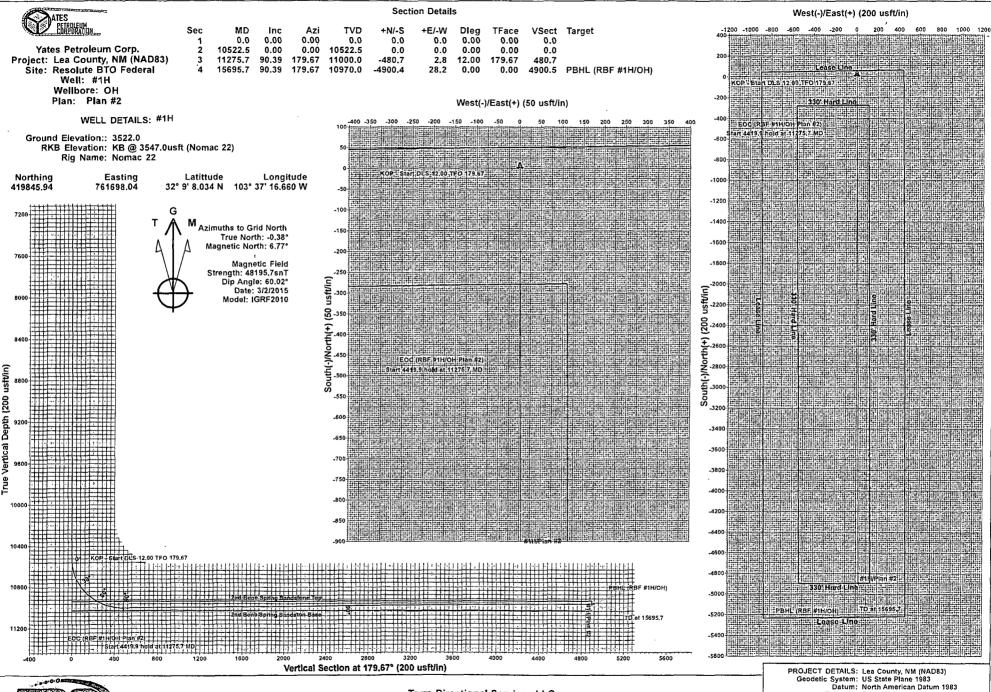
The approval of the following 2 stage cement contingency is requested if hole conditions warrant:

DV/Packer stage tool will be placed at approx. 9,500'-10,000' (cement will be adjusted per tool placement)

Stage I: Lead w/1450sx PVL(YLD 1.36, WT 13.5, 6.3 gal/sk)

Stage II: Lead w/735sx 35/65 PozC (YLD 2 WT 12.5, 11 gal/sk) Tail w/205sx Class C (YLD 1.34 WT 14.8, 6.23 gal/sk)

Excess calculated at 35%. Casing weight and grade will remain the same. TOC= approx. 4,400'



Terra Directional Services LLC 322 Spring Hill Drive, Suite A300. Spring, Tx 77386 Phone: 432-425-7532

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Local North: Grid



# Yates Petroleum Corp.

Lea County, NM (NAD83) Resolute BTO Federal #1H

ОН

Plan: Plan #2

# **Standard Planning Report**

04 March, 2015







Database: EDM 5000.1 Single User Db Yates Petroleum Corp. Company: Lea County, NM (NAD83) Project:

Site: Resolute BTO Federal Well:

Local Co-ordinate Reference: **TVD Reference:** MD Reference: North Reference: Survey Calculation Method:

Well #1H KB @ 3547.0usft (Nomac 22) KB @ 3547.0usft (Nomac 22)

Grid

Minimum Curvature

Lea County, NM (NAD83) Project ·

OH

Plan #2

Map System:

Wellbore: Design:

> US State Plane 1983 North American Datum 1983

Geo Datum: Map Zone:

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site Resolute BTO Federal

Site Position: From:

Мар

Northing: Easting:

419,845.94 usft 761,698.04 usft

Latitude: Longitude:

32° 9' 8.034 N

0.38

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16 "

Grid Convergence:

103° 37' 16.660 W

#1H Well Well Position +N/-S 0.0 usft Northing: 419,845.94 usft Latitude: +E/-W 0.0 usft Easting: 761,698,04 usft 103° 37' 16,660 W Longitude: 3,522.0 usft **Position Uncertainty** 0.0 usft Wellhead Elevation: 0.0 usft Ground Level:

Wellbore	∵'OH					
Magnetics	Model Name	Sample Date	Declinatio	n Dip	Angle Fi	eld Strength (nT)
	IGRF2	010 3/2/20	)15	7.15	60.02	48,196

Design Plan #2			And the second of the second o		
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
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	(usft)	(usft)	(uṣft)	(°)	
The state of the s	0.0	0.0	0.0	179.67	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0,0	0.00	0.00	0.0	0.0	0.0	0:00	0.00	0.00	0,00	
10,522,5	0.00	0.00	10,522.5	0.0	0.0	. 0.00	0.00	0.00	0.00	
11,275.7	90.39	179.67	11,000.0	-480.7	2.8	12.00	12.00	23.85	179.67	
15,695,7	90.39	179.67	10.970.0	-4,900.4	28.2	0.00	0.00	0.00	0.00	PBHL (RBF #1H/C





Database: EDM 5000.1 Single User L Company: Yates Petroleum Corp. Project: Lea County, NM (NAD83) Site: Resolute BTO Federal Well: #1H EDM 5000.1 Single User Db Yates Petroleum Corp.

x. OH Wellbore:

Local Co-ordinate Reference:

TVD Reference: North Reference:

Survey Calculation Method:

Well #1H

KB @ 3547.0usft (Nomac 22) KB @ 3547.0usft (Nomac 22) Grid

Design:	Plan #2								
Planned Survey		and the second of the second	The state of wheeling of the state of		and Definition and the paper of	The proof of the state of the s	The second second		
Measured			Vertical			Vertical	Doglade	Build	The second secon
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	, Dogleg Rate	Rate	Turn Rate
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400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
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700.0 800.0	0.00	0.00	700.0	0,0	0.0	0.0	0.00	0.00	0.00
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1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0,0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
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2,200.0	0.00	0.00 0.00	2,200.0 2,300.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00
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4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
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Database: Company: Project: Site: EDM 5000.1 Single User Db Yates Petroleum Corp Lea County, NM (NAD83)

Resolute BTO Federal

#1H

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Well#1H

KB @ 3547.0usft (Nomac 22) KB @ 3547.0usft (Nomac 22)

Grid

This is the first first than the first terms of the	OH Plan #2		•						
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·		0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0 6,100.0	0.00 0.00	0.00 0.00	6,000.0 6,100.0	0.0 0.0	0.0	0.0	0.00	0.00	0.00
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6,300.0	0,00	0.00	6,300.0	0.0	0.0	0.0 0.0	0.00 0.00	0.00	0.00
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8,900.0	0.00	0.00	8,900.0	0.0	0.0	0,0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	. 0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0 10,400.0	0.00 0.00	0.00	10,300.0 10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
		0.00		0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,522.5	0.00	0.00	10,522.5	0.0	0.0	0.0	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db Company: Yatës Patroleum Corp.

Yatës Petroleum Corp. Lea County NM (NAD83) Resolute BTO Federal

Project: Lea Co Site: Resolut Well: #1H Wellbore: OH Design: Plan #2 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#1H

KB @ 3547.0usft (Nomac 22) KB @ 3547.0usft (Nomac 22)

Grid

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New York   Per	Planned Survey		<del>ar anarsana.</del> Na karkantar	The second of the second	Water State of State of the sta			artenation phended in any consequence and a second consequence and a se	erretti di manda erretti de propieta en la companya de la companya de la companya de la companya de la company La companya de la companya de	er kannet er en en kannet en en kannet en
Pepth   Infirmation   Agrinule   Pepth   Septh   Learny   Crists   Learny   Addition   Crists   Cris	Mongurad			nation in				1. 文文语言		
Company   Comp		Ass			34.16	A				
10.525.0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
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10,625.0	10,575.0	6,30	179.67	10,574.9	-2.9	0.0	2.9			
10,825.0 12.30 179.67 10,624.2 -110.0 1 11.0 12.00 12.00 0.00 10,675.0 18.30 179.67 10,645.2 -16.9 0.1 16.9 12.00 0.00 12.00 0.00 10,675.0 18.30 179.67 10,665.9 -32.6 0.2 32.6 12.00 12.00 0.00 10,700.0 21.30 179.67 10,665.9 -32.6 0.2 32.6 12.00 12.00 0.00 10,700.0 21.30 179.67 10,665.9 -32.6 0.2 32.6 12.00 12.00 0.00 10,750.0 27.30 179.67 10,719.0 -42.3 0.2 42.3 12.00 12.00 0.00 10,750.0 27.30 179.67 10,745.4 -85.2 0.3 53.2 12.00 12.00 0.00 10,775.0 30.30 179.67 10,763.4 -85.2 0.3 53.2 12.00 12.00 0.00 10,775.0 30.30 179.67 10,763.4 -85.2 0.3 53.2 12.00 12.00 0.00 10,865.0 38.30 179.67 10,763.4 -85.2 0.4 85.2 12.00 12.00 0.00 10,865.0 38.30 179.67 10,764.5 -78.4 0.5 794.7 12.00 12.00 0.00 10,855.0 38.30 179.67 10,865.2 -92.7 0.5 92.7 12.00 12.00 0.00 10,875.0 42.30 179.67 10,864.5 -104.6 0.8 0.0 6 108.0 12.00 12.00 0.00 10,875.0 42.30 179.67 10,864.5 -144.6 0.8 144.6 12.00 12.00 0.00 10,875.0 42.30 179.67 10,864.5 -144.6 0.8 144.6 12.00 12.00 0.00 10,950.0 51.30 179.67 10,865.1 -176.9 1.0 18.0 18.0 14.1 8 12.00 12.00 0.00 10,950.0 51.30 179.67 10,874.3 -120.5 1.50 12.00 0.00 10,950.0 51.30 179.67 10,874.3 -120.5 1.50 12.00 12.00 0.00 10,950.0 51.30 179.67 10,874.3 -120.5 1.50 12.00 12.00 0.00 11,955.0 60.30 179.67 10,874.3 -120.5 1.50 12.00 12.00 0.00 11,955.0 60.30 179.67 10,874.3 -120.5 1.50 12.00 12.00 0.00 11,955.0 60.30 179.67 10,874.3 -120.5 1.50 12.00 12.00 0.00 11,955.0 60.30 179.67 10,949.1 -282.9 1.5 28.2 12.00 12.00 0.00 11,955.0 63.30 179.67 10,949.1 -282.9 1.5 28.2 12.00 12.00 0.00 11,955.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 11,955.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 11,955.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 11,955.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 11,950.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 11,950.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 0.00 11,950.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0.00 0.00 11,950.0 63.30 179.67 10,949.1 -282.9 1.5 282.9 12.00 12.00 0	10,600.0	9.30	179.67	10,599.7	-6.3	0.0	6.3	12.00	12.00	0.00
10,659.0 15.30 179.67 10,674.5 1-16.9 0.1 16.9 12.00 12.00 0.00 10,7675.0 18.30 179.67 10,672.4 -24.1 0.1 24.1 12.00 12.00 0.00 10,700.0 21.30 179.67 10,685.9 -32.6 0.2 32.6 12.00 12.00 0.00 10,700.0 21.30 179.67 10,765.9 32.6 0.2 32.6 12.00 12.00 0.00 10,752.0 24.30 179.67 10,741.5 -53.2 0.2 32.6 12.00 12.00 0.00 10,752.0 27.30 179.67 10,741.5 -53.2 0.3 53.2 12.00 12.00 0.00 10,757.0 30.30 179.67 10,741.5 -53.2 0.3 53.2 12.00 12.00 0.00 10,775.0 30.30 179.67 10,764.6 -78.4 0.5 78.2 12.00 12.00 0.00 10,855.0 33.30 179.67 10,865.2 -92.7 0.5 92.7 12.00 12.00 0.00 10,855.0 36.30 179.67 10,865.2 -92.7 0.5 92.7 12.00 12.00 0.00 10,855.0 36.30 179.67 10,865.2 -92.7 0.6 10.8 10.0 10,875.0 42.30 179.67 10,864.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,875.0 42.30 179.67 10,864.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,955.0 43.30 179.67 10,864.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,955.0 43.30 179.67 10,864.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,955.0 43.30 179.67 10,864.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,955.0 54.30 179.67 10,869.1 -179.9 1.0 179.9 12.00 12.00 0.00 11,055.0 63.30 179.67 10,869.1 -179.8 1.0 179.8 12.00 12.00 0.00 11,055.0 63.30 179.67 10,869.1 -179.8 1.0 179.8 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.7 -285.5 1.3 12.95 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.7 -285.5 1.6 285.5 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.7 -285.5 1.6 285.5 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.7 -385.5 1.6 285.5 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.1 -308.7 1.8 308.7 12.00 12.00 0.00 11,055.0 65.30 179.67 10,989.1 -308.7 1.8 308.7 12.00 12.00 0.00 11,050.0 63.30 179.67 10,989.1 -308.7 1.8 60.5 12.00 12.00 0.00 11,050.0 63.30 179.67 10,989.1 -308.7 1.8 60.5 12.00 12.00 0.00 11,050.0 63.30 179.67 10,989.1 -308.7 1.8 60.5 0.00 12.00 0.00 0.00 11,050.0 63.30 179.67 10,989.1 -308.7 1.8 60.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10,625.0	12.30	179.67							
10,675.0	10,650.0	15,30	179.67	10,648.5	-16.9					
10,725.0	·					0.1	24.1			
10.750.0	10,700.0	21.30	179.67	10,695.9	-32,6	0.2	32.6	12.00	12.00	0.00
10,750.0	10,725.0	24.30	179.67	10,719.0	-42.3	0.2	42.3	12.00	12.00	0.00
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10.875.0	10,850,0	39.30	179.67	10,824.9	-108.0	0.6	108.0	12.00	12.00	0.00
10,900.0 45.30 179.67 10,861.9 -141.6 0.8 141.6 12.00 12.00 0.00 10,950.0 51.30 179.67 10,879.0 -159.8 0.9 159.8 12.00 12.00 12.00 0.00 10,950.0 51.30 179.67 10,895.1 -178.9 1.0 178.9 12.00 12.00 0.00 11,000.0 57.30 179.67 10,952.1 -178.9 1.1 188.8 12.00 12.00 0.00 11,000.0 57.30 179.67 10,924.3 -219.5 13 219.5 12.00 12.00 0.00 11,000.0 57.30 179.67 10,937.2 -240.9 1.4 240.9 12.00 12.00 0.00 11,005.0 63.30 179.67 10,949.1 -262.9 1.5 262.9 12.00 12.00 0.00 11,075.0 663.0 179.67 10,949.1 -262.9 1.5 262.9 12.00 12.00 0.00 11,075.0 663.0 179.67 10,959.7 -285.5 1.6 285.5 12.00 12.00 0.00 11,1050.0 63.30 179.67 10,959.7 -285.5 1.6 285.5 12.00 12.00 0.00 11,1050.0 63.30 179.67 10,959.7 -285.5 1.6 285.5 12.00 12.00 0.00 11,1050.0 63.30 179.67 10,969.1 -306.7 1.8 308.7 12.00 12.00 0.00 11,1050.0 63.00 179.67 10,969.1 -306.7 1.8 308.7 12.00 12.00 0.00 11,1050.0 63.0 179.67 10,984.3 -356.3 1.9 332.3 12.00 12.00 0.00 11,1150.0 75.30 179.67 10,984.3 -356.3 2.0 356.3 12.00 12.00 0.00 11,175.0 78.30 179.67 10,984.5 -405.2 2.3 306.6 12.00 12.00 0.00 11,175.0 78.30 179.67 10,994.5 -405.2 2.3 306.6 12.00 12.00 0.00 11,1250.0 81.30 179.67 10,994.5 -405.2 2.3 306.6 12.00 12.00 0.00 11,1250.0 81.30 179.67 10,994.5 -405.2 2.3 306.6 12.00 12.00 0.00 11,1250.0 87.30 179.67 10,994.5 -405.2 2.3 306.6 12.00 12.00 12.00 0.00 11,1250.0 87.30 179.67 10,994.5 -405.2 2.3 405.2 12.00 12.00 0.00 11,1250.0 87.30 179.67 10,994.5 -405.2 2.3 405.2 12.00 12.00 0.00 11,1250.0 87.30 179.67 10,994.5 -405.2 2.3 405.2 12.00 12.00 0.00 0.00 11,1250.0 90.39 179.67 10,994.6 -40.9 4.1 705.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0										
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10,950.0   51.30   178.67   10,895.1   -178.9   1.0   178.9   12.00   12.00   0.00	10,925.0	48.30	179.67	10,879.0						
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11,000.0 57.30 179.67 10,924.3 -219.5 1.3 219.5 12.00 12.00 0.00 11,025.0 60.30 179.67 10,937.2 -240.9 1.4 240.9 12.00 12.00 0.00 11,050.0 63.30 179.67 10,949.1 -262.9 1.5 262.9 12.00 12.00 0.00 11,075.0 65.30 179.67 10,949.1 -262.9 1.5 262.9 12.00 12.00 0.00 11,075.0 65.30 179.67 10,949.1 -308.7 1.8 308.7 12.00 12.00 0.00 11,1050.0 69.30 179.67 10,969.1 -308.7 1.8 308.7 12.00 12.00 0.00 11,125.0 72.30 179.67 10,977.4 -332.3 1.9 332.3 12.00 12.00 0.00 11,150.0 75.30 179.67 10,994.3 -356.3 2.0 356.3 12.00 12.00 0.00 11,150.0 75.30 179.67 10,994.3 -356.3 2.0 356.3 12.00 12.00 0.00 11,150.0 75.30 179.67 10,994.5 -405.2 2.3 405.2 12.00 12.00 0.00 11,200 0.00 0.00 11,200 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10.975.0	54.30	179 67	10 910 2	-198.8	1.1	1088	12.00		
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11,400.0         90.39         179.67         10,999.1         -605.0         3.5         605.0         0.00         0.00         0.00           11,500.0         90.39         179.67         10,998.4         -704.9         4.1         705.0         0.00         0.00         0.00           11,600.0         90.39         179.67         10,997.8         -804.9         4.6         805.0         0.00         0.00         0.00           11,700.0         90.39         179.67         10,997.1         -904.9         5.2         905.0         0.00         0.00         0.00           11,800.0         90.39         179.67         10,996.4         -1,004.9         5.8         1,005.0         0.00         0.00         0.00           11,900.0         90.39         179.67         10,995.7         -1,104.9         6.3         1,105.0         0.00         0.00         0.00           12,000.0         90.39         179.67         10,995.0         -1,204.9         6.9         1,204.9         0.00         0.00         0.00           12,100.0         90.39         179.67         10,995.0         -1,204.9         6.9         1,204.9         0.00         0.00         0.00				10,999.8	-505.0	2.9	505.0	0.00	0.00	0.00
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11,700.0       90.39       179.67       10,997.1       -904.9       5.2       905.0       0.00       0.00       0.00         11,800.0       90.39       179.67       10,996.4       -1,004.9       5.8       1,005.0       0.00       0.00       0.00         11,900.0       90.39       179.67       10,995.7       -1,104.9       6.3       1,105.0       0.00       0.00       0.00         12,000.0       90.39       179.67       10,995.0       -1,204.9       6.9       1,204.9       0.00       0.00       0.00         12,100.0       90.39       179.67       10,993.0       -1,304.9       7.5       1,304.9       0.00       0.00       0.00         12,200.0       90.39       179.67       10,993.7       -1,404.9       8.1       1,404.9       0.00       0.00       0.00         12,300.0       90.39       179.67       10,993.0       -1,504.9       8.6       1,504.9       0.00       0.00       0.00         12,400.0       90.39       179.67       10,992.3       -1,604.9       9.2       1,604.9       0.00       0.00       0.00         12,500.0       90.39       179.67       10,991.7       -1,704.9       9.8       <										
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11,900.0       90.39       179.67       10,995.7       -1,104.9       6.3       1,105.0       0.00       0.00       0.00         12,000.0       90.39       179.67       10,995.0       -1,204.9       6.9       1,204.9       0.00       0.00       0.00         12,100.0       90.39       179.67       10,994.4       -1,304.9       7.5       1,304.9       0.00       0.00       0.00         12,200.0       90.39       179.67       10,993.7       -1,404.9       8.1       1,404.9       0.00       0.00       0.00         12,300.0       90.39       179.67       10,993.0       -1,504.9       8.6       1,504.9       0.00       0.00       0.00         12,400.0       90.39       179.67       10,992.3       -1,604.9       9.2       1,604.9       0.00       0.00       0.00         12,500.0       90.39       179.67       10,991.7       -1,704.9       9.8       1,704.9       0.00       0.00       0.00         12,600.0       90.39       179.67       10,991.0       -1,804.9       10.4       1,804.9       0.00       0.00       0.00         12,700.0       90.39       179.67       10,989.6       -2,004.9       10.9										
12,000.0       90.39       179.67       10,995.0       -1,204.9       6.9       1,204.9       0.00       0.00       0.00       0.00         12,100.0       90.39       179.67       10,994.4       -1,304.9       7.5       1,304.9       0.00       0.00       0.00       0.00         12,200.0       90.39       179.67       10,993.7       -1,404.9       8.1       1,404.9       0.00       0.00       0.00       0.00         12,300.0       90.39       179.67       10,993.0       -1,504.9       8.6       1,504.9       0.00       0.00       0.00       0.00         12,400.0       90.39       179.67       10,992.3       -1,604.9       9.2       1,604.9       0.00       0.00       0.00       0.00         12,500.0       90.39       179.67       10,991.7       -1,704.9       9.8       1,704.9       0.00       0.00       0.00       0.00         12,600.0       90.39       179.67       10,991.0       -1,804.9       10.4       1,804.9       0.00       0.00       0.00       0.00         12,700.0       90.39       179.67       10,998.3       -2,004.9       10.9       1,904.9       0.00       0.00       0.00       0.00	11,900.0									
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12,400.0       90.39       179.67       10,992.3       -1,604.9       9.2       1,604.9       0.00       0.00       0.00       0.00         12,500.0       90.39       179.67       10,991.7       -1,704.9       9.8       1,704.9       0.00       0.00       0.00         12,600.0       90.39       179.67       10,991.0       -1,804.9       10.4       1,804.9       0.00       0.00       0.00         12,700.0       90.39       179.67       10,990.3       -1,904.9       10.9       1,904.9       0.00       0.00       0.00         12,800.0       90.39       179.67       10,988.6       -2,004.9       11.5       2,004.9       0.00       0.00       0.00         12,900.0       90.39       179.67       10,988.9       -2,104.9       12.1       2,104.9       0.00       0.00       0.00         13,000.0       90.39       179.67       10,988.3       -2,204.9       12.7       2,204.9       0.00       0.00       0.00         13,100.0       90.39       179.67       10,987.6       -2,304.9       13.2       2,304.9       0.00       0.00       0.00       0.00										
12,500.0       90.39       179.67       10,991.7       -1,704.9       9.8       1,704.9       0.00       0.00       0.00         12,600.0       90.39       179.67       10,991.0       -1,804.9       10.4       1,804.9       0.00       0.00       0.00         12,700.0       90.39       179.67       10,990.3       -1,904.9       10.9       1,904.9       0.00       0.00       0.00         12,800.0       90.39       179.67       10,988.9       -2,004.9       11.5       2,004.9       0.00       0.00       0.00         12,900.0       90.39       179.67       10,988.9       -2,104.9       12.1       2,104.9       0.00       0.00       0.00         13,000.0       90.39       179.67       10,988.3       -2,204.9       12.7       2,204.9       0.00       0.00       0.00         13,100.0       90.39       179.67       10,987.6       -2,304.9       13.2       2,304.9       0.00       0.00       0.00										
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Database: EDM 5000.1 Single User Db

Company: Yates Petroleum Corp.
Project: Lea County, NM (NAD83)
Site: Resolute BTO Federal

Site: Resolute
Well: #1H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well#1H

KB @ 3547.0usft (Nomac 22) KB @ 3547.0usft (Nomac 22)

Grid

nned Survey				A STATE OF THE STA					
Measured Depth (usft)	clination	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (7100usft)	Build Rate (*/100usft)	Turn Rate (*/100usft)
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13,400.0	90.39	179.67	10,985.6	-2,604.9	15.0	2,604.9	0.00	0.00	0.00
13,500.0	90,39	179.67	10,984.9	-2,704.9	15.5	2,704.9	0.00	0.00	0.60
13,600.0	90,39	179.67	10,984.2	-2,804.9	16.1	2,804.9	0.00	0.00	0.00
13,700.0	90.39	179.67	10,983.5	-2,904.9	16.7	2,904.9	0.00	0.00	0.00
13,800.0	90.39	179,67	10,982.8	-3,004.9	17.3	3,004.9	0.00	0.00	0.00
13,900.0	90.39	179.67	10,982.2	-3,104.9	17.8	3,104.9	0.00	0.00	0.00
14,000.0	90.39	179.67	10,981.5	-3,204.8	18.4	3,204.9	0.00	0.00	0.00
14,100.0	90,39	179.67	10,980.8	-3,304.8	19.0	3,304.9	0.00	0.00	0.00
14,200.0	90.39	179.67	10,980.1	-3,404.8	19.6	3,404.9	0.00	0.00	0.00
14,300.0	90.39	179.67	10,979.5	-3,504.8	. 20.1	3,504.9	0.00	0.00	0.00
14,400.0	90.39	179.67	10,978.8	-3,604.8	20.7	3,604.9	0.00	0.00	0.00
14,500.0	90,39	179,67	10,978.1	-3,704.8	21.3	3,704.9	0.00	0.00	. 0.00
14,600.0	90.39	179.67	10,977.4	-3,804.8	21.9	3,804.9	0.00	0.00	0.00
14,700.0	90.39	179.67	10,976.7	-3,904.8	22.4	3,904.9	0.00	0.00	0.00
14,800.0	90.39	179.67	10,976.1	-4,004.8	23.0	4,004.9	0.00	0.00	0.00
14,900.0	90,39	179,67	10,975.4	-4,104.8	23.6	4,104.9	0.00	0.00	0.00
15,000.0	90.39	179.67	10,974.7	-4,204.8	24.2	4,204.9	0.00	0.00	0.00
15,100.0	90.39	179.67	10,974.0	-4,304.8	24.7	4,304.9	0.00	0.00	0.00
15,200.0	90.39	179.67	10,973.4	-4,404.8	25.3	4,404.9	0.00	0.00	0.00
15,300.0	90.39	179.67	10,972.7	-4,504.8	25.9	4,504.9	0.00	0,00	0.00
15,400.0	90.39	179.67	10,972.0	-4,604.8	26.5	4,604.9	0.00	0.00	0.00
15,500.0	90,39	179,67	10,971.3	-4,704.8	27.0	4,704.9	0.00	0.00	0.00
15,600.0	90.39	179.67	10,970.6	-4,804.8	27,6	4,804.9	0.00	0.00	0.00
15,695.7	90.39	179.67	10,970.0	-4,900.4	28.2	4,900.5	0.00	0.00	0.00

Design Targets  Target Name hit/miss target Shape		Dip Dir.	TVD (ušft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (RBF #1H/OH) - plan hits target center - Point	0.00	0.00	10,970.0	-4,900.4	28.2	414,945.50	761,726,20	32° 8' 19.540 N	103° 37' 16.710 W
EOC (RBF #1H/OH Plan - plan hits target center - Point	0.00	0.00	11,000.0	-480.7	2.8	419,365.29	761,700.80	32° 9' 3.278 N	103° 37' 16.665 W

Plan Annotations Measured Depth (ustt)	Vertical Depth (usft)	Local Coord +N/-S (usft)		Comment
10,522.5	10,522.5	0.0	0.0	KOP - Start DLS 12.00 TFO 179.67
11,275.7	11,000.0	-480.7	2.8	EOC - Start 4419.9 hold at 11275.7 MD
15,695.7	10,970.0	-4,900,4	28.2	TD at 15695.7

# **CONDITIONS OF APPROVAL**

Sundry dated 03/13/2015

OPERATOR'S NAME:

YATES PETROLEUM

LEASE NO.:

NM110835

**WELL NAME & NO.:** 

1H-RESOLUTE BTO FEDERAL COM

SURFACE HOLE FOOTAGE:

50' FNL & 440' FEL 330' FSL & 330' FEL

BOTTOM HOLE FOOTAGE

Section 12, T. 25 S., R 32 E., NMPM

LOCATION: COUNTY:

Lea County, New Mexico

# DRILLING

#### DRILLING OPERATIONS REQUIREMENTS A.

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

# **\times** Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 1. Although there are no measured amounts of Hydrogen Sulfide reported, it is always a potential hazard. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well - vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the **Completion Report.**

## B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

## Wait on cement (WOC) for Potash Areas:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log.

# Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possibility of water and brine flows in the Salado, Castile Delaware, and Bone Springs Formations.

Possibility of lost circulation in the Triassic Red Beds, Dewey Lake, Delaware, and Bone Springs Formations.

A CIT is to be performed on the casing per Onshore Oil and Gas Order 2.III.B.1.h prior to drilling the shoe plug. Pressure not to exceed 70% of the burst rating of the casing.

1. The 13-3/8 inch surface casing shall be set at approximately 1100 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

# **Primary Intermediate Cement Job:**

☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

# **Contingency Intermediate Cement Job:**

Operator has proposed DV tool at depth of 3,000' to 3,500', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation of cement to surface on the next stage.

- b. Second stage above DV tool:
- ☐ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

The pilot hole plugging procedure is approved as written.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

## **Primary Production Cement Job:**

Cement should tie-back at least 300 feet into previous casing string. Operator shall provide method of verification.

# **Contingency Production Cement Job:**

Operator has proposed DV tools at depths of 9,500' to 10,000', but will adjust cement proportionately if moved. DV tools shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement should tie-back at least 300 feet into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

## C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.
  - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 5000 (5M) psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

## D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

# E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

EGF 031615