

Submit 1 Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-41172
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Devon Energy Production Co., L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 333 West Sheridan Ave, Oklahoma City, OK 73102		7. Lease Name or Unit Agreement Name Josey Wales 16 State Com
4. Well Location Unit Letter _____ : 330 _____ feet from the _____ N _____ line and 660 _____ feet from the _____ E _____ line Section 16 Township 24S Range 27E NMPM County Eddy		8. Well Number 4H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3205.5		9. OGRID Number 6137
		10. Pool name or Wildcat Wilcat; Bone Spring; G-02-S2427030

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Devon respectfully requests to change the target of this well from a 2nd Bone Spring target to a 3rd Bone Spring target. The updated drilling and directional plans have been attached, as well as the C-102.

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 15 2015

RECEIVED

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tami Laird TITLE Regulatory Compliance Analyst DATE 1-13-15

Type or print name Tami Laird E-mail address: tami.laird@dvn.com PHONE: 405-228-2816

For State Use Only

APPROVED BY: RD Ade TITLE Dist Supervisor DATE 1/15/15

Conditions of Approval (if any):

JAN 15 2015

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico **RECEIVED**
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41172	² Pool Code 97837	³ Pool Name Wildcat; G-02-S2427030; Bone Spring
⁴ Property Code 39709	⁵ Property Name JOSEY WALES 16 STATE COM	⁶ Well Number 4H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3205.5

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	24 S	27 E		150	SOUTH	990	EAST	EDDY

¹¹ 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
A	16	24 S	27 E		330	NORTH	660	EAST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

S89°40'46"W 2618.04 FT NW CORNER SEC. 16 LAT. = 32.2244881°N LONG. = 104.2040622°W NMSP EAST (FT) N = 445426.64 E = 581312.08 Project Area → Completion Interval → VB-1762 Lease Line → W O CORNER SEC. 16 LAT. = 32.2172582°N LONG. = 104.2040893°W NMSP EAST (FT) N = 442796.50 E = 581306.85 JOSEY WALES 16 STATE COM #4H ELEV. = 3205.5 LAT. = 32.2104093°N (NAD83) LONG. = 104.1904017°W NMSP EAST (FT) N = 440310.37 E = 585543.13 SW CORNER SEC. 16 LAT. = 32.2099570°N LONG. = 104.2040336°W NMSP EAST (FT) N = 440140.51 E = 581327.30 N89°43'46"E 2603.29 FT		S89°40'46"W 2618.04 FT N O CORNER SEC. 16 COMPUTED BOTTOM OF HOLE LAT. = 32.2236390°N LONG. = 104.1892686°W NMSP EAST (FT) N = 445123.55 E = 585887.13 NE CORNER SEC. 16 LAT. = 32.2245502°N LONG. = 104.187339°W NMSP EAST (FT) N = 44555.9 E = 586546.8 E O CORNER SEC. 16 LAT. = 32.2172219°N LONG. = 104.187312°W NMSP EAST (FT) N = 442790.0 E = 586538.9 SE CORNER SEC. 16 LAT. = 32.2100062°N LONG. = 104.1872032°W NMSP EAST (FT) N = 440165.0 E = 586532.5 S O CORNER SEC. 16 COMPUTED SURFACE LOCATION N89°43'46"E 2603.29 FT	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Tami Laird</i> 1/13/15 Signature Date Tami Laird; Regulatory Analyst Printed Name tami.laird@dmn.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 27, 2013 Date of Survey <i>Filimon E. Jaramillo</i> Signature and Seal of Professional Surveyor Certificate Number: FILIMON E. JARAMILLO, PLS 12797 SURVEY NO. 1456A
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DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Josey Wales 16 State Com
Well: 4H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.08°
Magnetic North: 7.59°

Magnetic Field
Strength: 48376.9nT
Dip Angle: 60.03°
Date: 2/4/2013
Model: IGRF2010

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

devon

DESIGN TARGET DETAILS

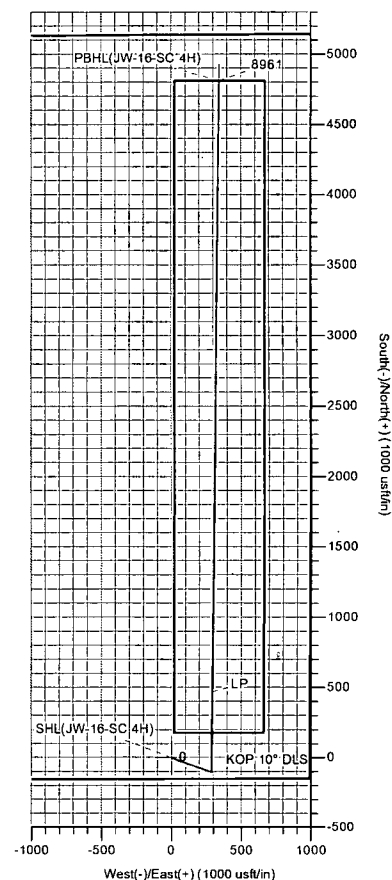
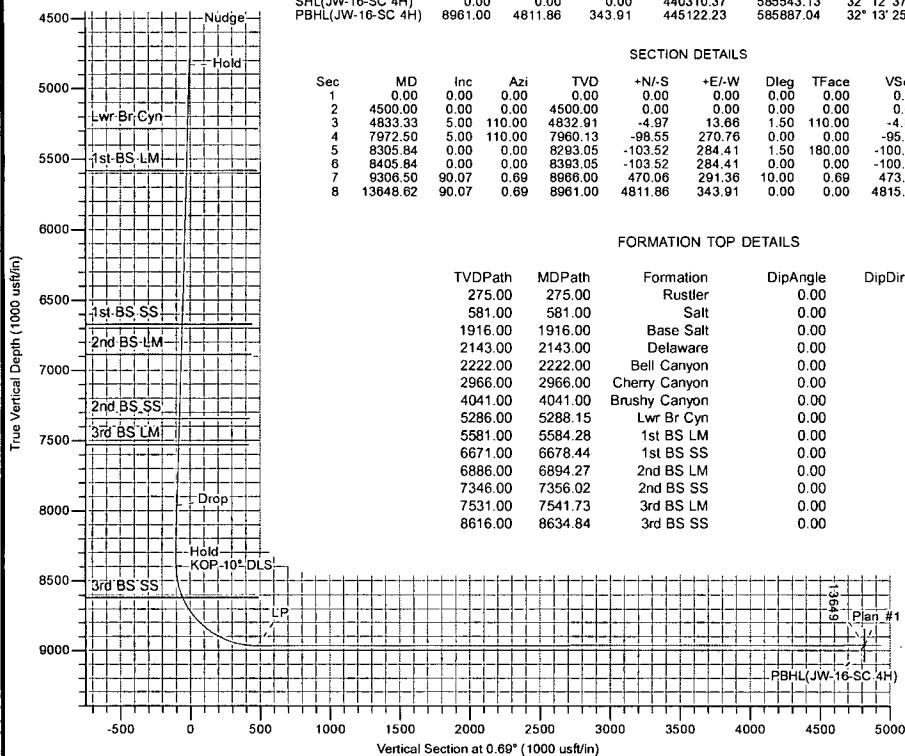
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(JW-16-SC 4H)	0.00	0.00	0.00	440310.37	585543.13	32° 12' 37.473 N	104° 11' 25.446 W
PBHL(JW-16-SC 4H)	8961.00	4811.86	343.91	445122.23	585887.04	32° 13' 25.087 N	104° 11' 21.368 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	Nudge
3	4833.33	5.00	110.00	4832.91	-4.97	13.66	1.50	110.00	-4.81	Hold
4	7972.50	5.00	110.00	7960.13	-98.55	270.76	0.00	0.00	-95.28	Drop
5	8305.84	0.00	0.00	8293.05	-103.52	284.41	1.50	180.00	-100.09	Hold
6	8405.84	0.00	0.00	8393.05	-103.52	284.41	0.00	0.00	-100.09	KOP 10° DLS
7	9308.50	90.07	0.69	8966.00	470.06	291.36	10.00	0.69	473.53	LP
8	13648.62	90.07	0.69	8961.00	4811.86	343.91	0.00	0.00	4815.66	TD

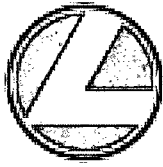
FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
275.00	275.00	Rustler	0.00	
581.00	581.00	Salt	0.00	
1916.00	1916.00	Base Salt	0.00	
2143.00	2143.00	Delaware	0.00	
2222.00	2222.00	Bell Canyon	0.00	
2966.00	2966.00	Cherry Canyon	0.00	
4041.00	4041.00	Brushy Canyon	0.00	
5286.00	5288.15	Lwr Br Cyn	0.00	
5581.00	5584.28	1st BS LM	0.00	
6671.00	6678.44	1st BS SS	0.00	
6886.00	6894.27	2nd BS LM	0.00	
7346.00	7356.02	2nd BS SS	0.00	
7531.00	7541.73	3rd BS LM	0.00	
8616.00	8634.84	3rd BS SS	0.00	



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (4H/OH)
Josey Wales 16 State Com
Created By: Brady Deever Date: 10/04, December 23 2014
Date: _____
Approved: _____ Date: _____



LEAM
Drilling Systems, Inc.

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 15 2015

RECEIVED

DEVON ENERGY

Eddy County, NM (NAD-83)
Josey Wales 16 State Com
4H

OH

Plan: Plan #1

Standard Planning Report

23 December, 2014


devon

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Josey Wales 16 State Com		
Site Position:	Map	Northing:	445,280.40 usft
From:		Easting:	581,971.69 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 26.702 N
		Longitude:	104° 12' 6.947 W
		Grid Convergence:	0.07 °

Well	4H		
Well Position	+N/-S	-4,970.03 usft	Northing: 440,310.37 usft
	+E/-W	3,571.44 usft	Easting: 585,543.13 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,206.00 usft
		Latitude:	32° 12' 37.473 N
		Longitude:	104° 11' 25.446 W
		Ground Level:	

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	2/4/2013	7.67
			Dip/Angle (°)
			60.03
			Field Strength (nT)
			48,377

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			0.69

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,833.33	5.00	110.00	4,832.91	-4.97	13.66	1.50	1.50	0.00	110.00	
7,972.50	5.00	110.00	7,960.14	-98.55	270.76	0.00	0.00	0.00	0.00	
8,305.84	0.00	0.00	8,293.05	-103.52	284.41	1.50	-1.50	0.00	180.00	
8,405.84	0.00	0.00	8,393.05	-103.52	284.41	0.00	0.00	0.00	0.00	
9,306.50	90.07	0.69	8,966.00	470.06	291.36	10.00	10.00	0.08	0.69	
13,648.62	90.07	0.69	8,961.00	4,811.86	343.91	0.00	0.00	0.00	0.00	PBHL(JW-16-SC 4H)



LEAM Drilling Systems LLC

Planning Report

devon

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL(JW-16-SC 4H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
275.00	0.00	0.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
581.00	0.00	0.00	581.00	0.00	0.00	0.00	0.00	0.00	0.00
Salt									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,916.00	0.00	0.00	1,916.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,143.00	0.00	0.00	2,143.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,222.00	0.00	0.00	2,222.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,966.00	0.00	0.00	2,966.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,041.00	0.00	0.00	4,041.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge									
4,600.00	1.50	110.00	4,599.99	-0.45	1.23	-0.43	1.50	1.50	0.00
4,700.00	3.00	110.00	4,699.91	-1.79	4.92	-1.73	1.50	1.50	0.00
4,800.00	4.50	110.00	4,799.69	-4.03	11.06	-3.89	1.50	1.50	0.00
4,833.33	5.00	110.00	4,832.91	-4.97	13.66	-4.81	1.50	1.50	0.00
Hold									
4,900.00	5.00	110.00	4,899.32	-6.96	19.12	-6.73	0.00	0.00	0.00
5,000.00	5.00	110.00	4,998.94	-9.94	27.31	-9.61	0.00	0.00	0.00
5,100.00	5.00	110.00	5,098.56	-12.92	35.50	-12.49	0.00	0.00	0.00
5,200.00	5.00	110.00	5,198.18	-15.90	43.69	-15.37	0.00	0.00	0.00
5,288.15	5.00	110.00	5,286.00	-18.53	50.91	-17.91	0.00	0.00	0.00
Lwr Br Cyn									
5,300.00	5.00	110.00	5,297.80	-18.88	51.88	-18.26	0.00	0.00	0.00
5,400.00	5.00	110.00	5,397.42	-21.86	60.07	-21.14	0.00	0.00	0.00
5,500.00	5.00	110.00	5,497.04	-24.84	68.26	-24.02	0.00	0.00	0.00
5,584.28	5.00	110.00	5,581.00	-27.36	75.16	-26.45	0.00	0.00	0.00
1st BS LM									
5,600.00	5.00	110.00	5,596.66	-27.82	76.45	-26.90	0.00	0.00	0.00
5,700.00	5.00	110.00	5,696.28	-30.81	84.64	-29.78	0.00	0.00	0.00
5,800.00	5.00	110.00	5,795.90	-33.79	92.83	-32.67	0.00	0.00	0.00
5,900.00	5.00	110.00	5,895.52	-36.77	101.02	-35.55	0.00	0.00	0.00
6,000.00	5.00	110.00	5,995.14	-39.75	109.21	-38.43	0.00	0.00	0.00
6,100.00	5.00	110.00	6,094.76	-42.73	117.40	-41.31	0.00	0.00	0.00
6,200.00	5.00	110.00	6,194.38	-45.71	125.59	-44.19	0.00	0.00	0.00
6,300.00	5.00	110.00	6,294.00	-48.69	133.78	-47.08	0.00	0.00	0.00
6,400.00	5.00	110.00	6,393.62	-51.67	141.97	-49.96	0.00	0.00	0.00
6,500.00	5.00	110.00	6,493.24	-54.65	150.16	-52.84	0.00	0.00	0.00
6,600.00	5.00	110.00	6,592.85	-57.63	158.35	-55.72	0.00	0.00	0.00
6,678.44	5.00	110.00	6,671.00	-59.97	164.77	-57.98	0.00	0.00	0.00
1st BS SS									
6,700.00	5.00	110.00	6,692.47	-60.61	166.54	-58.60	0.00	0.00	0.00
6,800.00	5.00	110.00	6,792.09	-63.60	174.73	-61.49	0.00	0.00	0.00
6,894.27	5.00	110.00	6,886.00	-66.41	182.45	-64.20	0.00	0.00	0.00
2nd BS LM									
6,900.00	5.00	110.00	6,891.71	-66.58	182.92	-64.37	0.00	0.00	0.00
7,000.00	5.00	110.00	6,991.33	-69.56	191.11	-67.25	0.00	0.00	0.00
7,100.00	5.00	110.00	7,090.95	-72.54	199.30	-70.13	0.00	0.00	0.00
7,200.00	5.00	110.00	7,190.57	-75.52	207.49	-73.02	0.00	0.00	0.00
7,300.00	5.00	110.00	7,290.19	-78.50	215.68	-75.90	0.00	0.00	0.00
7,356.02	5.00	110.00	7,346.00	-80.17	220.27	-77.51	0.00	0.00	0.00
2nd BS SS									
7,400.00	5.00	110.00	7,389.81	-81.48	223.87	-78.78	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.00	5.00	110.00	7,489.43	-84.46	232.06	-81.66	0.00	0.00	0.00
7,541.73	5.00	110.00	7,531.00	-85.71	235.48	-82.86	0.00	0.00	0.00
3rd BS LM									
7,600.00	5.00	110.00	7,589.05	-87.44	240.25	-84.54	0.00	0.00	0.00
7,700.00	5.00	110.00	7,688.67	-90.42	248.44	-87.43	0.00	0.00	0.00
7,800.00	5.00	110.00	7,788.29	-93.40	256.63	-90.31	0.00	0.00	0.00
7,900.00	5.00	110.00	7,887.91	-96.39	264.82	-93.19	0.00	0.00	0.00
7,972.50	5.00	110.00	7,960.14	-98.55	270.76	-95.28	0.00	0.00	0.00
Drop									
8,000.00	4.59	110.00	7,987.54	-99.33	272.91	-96.04	1.50	-1.50	0.00
8,100.00	3.09	110.00	8,087.31	-101.62	279.20	-98.25	1.50	-1.50	0.00
8,200.00	1.59	110.00	8,187.22	-103.02	283.04	-99.60	1.50	-1.50	0.00
8,305.84	0.00	0.00	8,293.05	-103.52	284.41	-100.09	1.50	-1.50	0.00
Hold									
8,405.84	0.00	0.00	8,393.05	-103.52	284.41	-100.09	0.00	0.00	0.00
KOP 10° DLS									
8,450.00	4.42	0.69	8,437.17	-101.82	284.43	-98.38	10.00	10.00	0.00
8,500.00	9.42	0.69	8,486.79	-95.80	284.51	-92.37	10.00	10.00	0.00
8,550.00	14.42	0.69	8,535.69	-85.48	284.63	-82.04	10.00	10.00	0.00
8,600.00	19.42	0.69	8,583.51	-70.94	284.81	-67.50	10.00	10.00	0.00
8,634.84	22.90	0.69	8,616.00	-58.36	284.96	-54.93	10.00	10.00	0.00
3rd BS SS									
8,650.00	24.42	0.69	8,629.89	-52.28	285.03	-48.84	10.00	10.00	0.00
8,700.00	29.42	0.69	8,674.45	-29.65	285.31	-26.22	10.00	10.00	0.00
8,750.00	34.42	0.69	8,716.88	-3.23	285.63	0.21	10.00	10.00	0.00
8,800.00	39.42	0.69	8,756.85	26.79	285.99	30.23	10.00	10.00	0.00
8,850.00	44.42	0.69	8,794.04	60.18	286.40	63.62	10.00	10.00	0.00
8,900.00	49.42	0.69	8,828.18	96.68	286.84	100.13	10.00	10.00	0.00
8,950.00	54.42	0.69	8,859.01	136.02	287.31	139.47	10.00	10.00	0.00
9,000.00	59.42	0.69	8,886.30	177.90	287.82	181.35	10.00	10.00	0.00
9,050.00	64.42	0.69	8,909.83	222.00	288.35	225.45	10.00	10.00	0.00
9,100.00	69.42	0.69	8,929.43	267.97	288.91	271.43	10.00	10.00	0.00
9,150.00	74.42	0.69	8,944.94	315.49	289.49	318.95	10.00	10.00	0.00
9,200.00	79.42	0.69	8,956.26	364.17	290.07	367.64	10.00	10.00	0.00
9,250.00	84.42	0.69	8,963.28	413.65	290.67	417.12	10.00	10.00	0.00
9,300.00	89.42	0.69	8,965.97	463.56	291.28	467.04	10.00	10.00	0.00
9,306.50	90.07	0.69	8,966.00	470.06	291.36	473.53	10.00	10.00	0.00
LP									
9,400.00	90.07	0.69	8,965.90	563.55	292.49	567.04	0.00	0.00	0.00
9,500.00	90.07	0.69	8,965.78	663.55	293.70	667.04	0.00	0.00	0.00
9,600.00	90.07	0.69	8,965.66	763.54	294.91	767.04	0.00	0.00	0.00
9,700.00	90.07	0.69	8,965.55	863.53	296.12	867.04	0.00	0.00	0.00
9,800.00	90.07	0.69	8,965.43	963.52	297.33	967.04	0.00	0.00	0.00
9,900.00	90.07	0.69	8,965.32	1,063.52	298.54	1,067.04	0.00	0.00	0.00
10,000.00	90.07	0.69	8,965.20	1,163.51	299.75	1,167.04	0.00	0.00	0.00
10,100.00	90.07	0.69	8,965.09	1,263.50	300.96	1,267.03	0.00	0.00	0.00
10,200.00	90.07	0.69	8,964.97	1,363.49	302.17	1,367.03	0.00	0.00	0.00
10,300.00	90.07	0.69	8,964.86	1,463.49	303.38	1,467.03	0.00	0.00	0.00
10,400.00	90.07	0.69	8,964.74	1,563.48	304.59	1,567.03	0.00	0.00	0.00
10,500.00	90.07	0.69	8,964.63	1,663.47	305.80	1,667.03	0.00	0.00	0.00
10,600.00	90.07	0.69	8,964.51	1,763.47	307.01	1,767.03	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
Company:	DEVON ENERGY	TVD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Com	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.00	90.07	0.69	8,964.40	1,863.46	308.22	1,867.03	0.00	0.00	0.00
10,800.00	90.07	0.69	8,964.28	1,963.45	309.43	1,967.03	0.00	0.00	0.00
10,900.00	90.07	0.69	8,964.17	2,063.44	310.64	2,067.03	0.00	0.00	0.00
11,000.00	90.07	0.69	8,964.05	2,163.44	311.85	2,167.03	0.00	0.00	0.00
11,100.00	90.07	0.69	8,963.94	2,263.43	313.06	2,267.03	0.00	0.00	0.00
11,200.00	90.07	0.69	8,963.82	2,363.42	314.27	2,367.03	0.00	0.00	0.00
11,300.00	90.07	0.69	8,963.71	2,463.41	315.48	2,467.03	0.00	0.00	0.00
11,400.00	90.07	0.69	8,963.59	2,563.41	316.69	2,567.03	0.00	0.00	0.00
11,500.00	90.07	0.69	8,963.48	2,663.40	317.90	2,667.03	0.00	0.00	0.00
11,600.00	90.07	0.69	8,963.36	2,763.39	319.11	2,767.03	0.00	0.00	0.00
11,700.00	90.07	0.69	8,963.25	2,863.38	320.32	2,867.03	0.00	0.00	0.00
11,800.00	90.07	0.69	8,963.13	2,963.38	321.53	2,967.03	0.00	0.00	0.00
11,900.00	90.07	0.69	8,963.01	3,063.37	322.74	3,067.03	0.00	0.00	0.00
12,000.00	90.07	0.69	8,962.90	3,163.36	323.95	3,167.03	0.00	0.00	0.00
12,100.00	90.07	0.69	8,962.78	3,263.35	325.16	3,267.03	0.00	0.00	0.00
12,200.00	90.07	0.69	8,962.67	3,363.35	326.37	3,367.03	0.00	0.00	0.00
12,300.00	90.07	0.69	8,962.55	3,463.34	327.58	3,467.03	0.00	0.00	0.00
12,400.00	90.07	0.69	8,962.44	3,563.33	328.79	3,567.03	0.00	0.00	0.00
12,500.00	90.07	0.69	8,962.32	3,663.32	330.00	3,667.03	0.00	0.00	0.00
12,600.00	90.07	0.69	8,962.21	3,763.32	331.22	3,767.03	0.00	0.00	0.00
12,700.00	90.07	0.69	8,962.09	3,863.31	332.43	3,867.03	0.00	0.00	0.00
12,800.00	90.07	0.69	8,961.98	3,963.30	333.64	3,967.03	0.00	0.00	0.00
12,900.00	90.07	0.69	8,961.86	4,063.30	334.85	4,067.03	0.00	0.00	0.00
13,000.00	90.07	0.69	8,961.75	4,163.29	336.06	4,167.03	0.00	0.00	0.00
13,100.00	90.07	0.69	8,961.63	4,263.28	337.27	4,267.03	0.00	0.00	0.00
13,200.00	90.07	0.69	8,961.52	4,363.27	338.48	4,367.03	0.00	0.00	0.00
13,300.00	90.07	0.69	8,961.40	4,463.27	339.69	4,467.03	0.00	0.00	0.00
13,400.00	90.07	0.69	8,961.29	4,563.26	340.90	4,567.03	0.00	0.00	0.00
13,500.00	90.07	0.69	8,961.17	4,663.25	342.11	4,667.03	0.00	0.00	0.00
13,600.00	90.07	0.69	8,961.06	4,763.24	343.32	4,767.03	0.00	0.00	0.00
13,648.62	90.07	0.69	8,961.00	4,811.86	343.91	4,815.66	0.00	0.00	0.00

TD - PBHL(JW-16-SC 4H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL(JW-16-SC 4H) - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	440,310.37	585,543.13	32° 12' 37.473 N	104° 11' 25.446 W
PBHL(JW-16-SC 4H) - plan hits target center - Point	0.00	0.00	8,961.00	4,811.86	343.91	445,122.23	585,887.04	32° 13' 25.087 N	104° 11' 21.368 W

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 4H
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Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3206' + KB 25' @ 3231.00usft (Original Well Elev)
Site:	Josey Wales 16 State Corn.	North Reference:	Grid
Well:	4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
275.00	275.00	Rustler		0.00		
581.00	581.00	Salt		0.00		
1,916.00	1,916.00	Base Salt		0.00		
2,143.00	2,143.00	Delaware		0.00		
2,222.00	2,222.00	Bell Canyon		0.00		
2,966.00	2,966.00	Cherry Canyon		0.00		
4,041.00	4,041.00	Brushy Canyon		0.00		
5,288.15	5,286.00	Lwr Br Cyn		0.00		
5,584.28	5,581.00	1st BS LM		0.00		
6,678.44	6,671.00	1st BS SS		0.00		
6,894.27	6,886.00	2nd BS LM		0.00		
7,356.02	7,346.00	2nd BS SS		0.00		
7,541.73	7,531.00	3rd BS LM		0.00		
8,634.84	8,616.00	3rd BS SS		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,500.00	4,500.00	0.00	0.00	Nudge	
4,833.33	4,832.91	-4.97	13.66	Hold	
7,972.50	7,960.14	-98.55	270.76	Drop	
8,305.84	8,293.05	-103.52	284.41	Hold	
8,405.84	8,393.05	-103.52	284.41	KOP 10° DLS	
9,306.50	8,966.00	470.06	291.36	LP	
13,648.62	8,961.00	4,811.86	343.91	TD	

Devon Energy, Josey Wales 16 State Com 4H

1. Geologic Formations

TVD of target	8,966'	Pilot hole depth	N/A
MD at TD:	13,648'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	275		
Top of Salt	581	Barren	
Base of Salt	1,916	Barren	
Delaware	2,143	Oil	
Bell Canyon	2,222	Oil	
Cherry Canyon	2,966	Oil	
Brushy Canyon	4,041	Oil	
Lower Brushy Canyon	5,286	Oil	
1 st Bone Spring Lime	5,581	Oil	
1 st Bone Spring Sand	6,671	Oil	
2 nd Bone Spring Lime	6,886	Oil	
2nd Bone Spring Sand	7,346	Oil	
3rd Bone Spring Lime	7,531	Oil	
3rd Bone Spring Sand	8,616	Oil	

*H₂S, water flows, loss of circulation, abnormal pressures, etc.

Devon Energy, Josey Wales 16 State Com 4H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	400	13.375"	48	H-40	STC	4.3	9.67	28.18
12.25"	0	2120	9.625"	36	J-55	LTC	1.83	3.19	5.94
Long String									
8.75"	0	13648	5.5"	17	P-110	BTC	1.98	2.45	3.73
Mixed String Option									
8.75"	0	8405	7"	29	P-110	BTC	2.26	2.76	3.91
8.75"	8405	13648	5.5"	17	P-110	BTC	1.98	2.45	6.37
7" and Liner Option									
8.75"	0	9100	7"	29	P-100	BTC	2.09	2.54	3.68
6.125"	8405	13648	4.5"	13.5	P-110	BTC	2.46	2.86	6.25
BLM Minimum Safety Factor							1.10	1.10	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Devon Energy, Josey Wales 16 State Com 4H

3. Cementing Program

Casing	# Sks	Wt. lb/gal	H ₂ O gal/sk	Yld ft ³ /sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	450	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	430	12.9	9.81	1.85	17	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
7" Int Single Stage	400	11	14.81	2.55	14	Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	320	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
7" Int Two Stage Option	400	11.9	12.89	2.31	n/a	1 st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	320	14.5	5.31	1.2	25	1 st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	DV Tool = 2170ft					
	20	11	14.81	2.55	14	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	40	14.8	6.32	1.33	6	2 nd stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
4-1/2" Liner	600	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
5-1/2" Prod	660	11.9	12.89	2.31	n/a	1 st Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
	330	12.5	10.86	1.96	30	2 nd Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1380	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
7 x 5-1/2" Combo Prod.	410	10.4	16.9	3.17	16	Tuned Light® + 0.125 lb/sk Pol-E-Flake
	1390	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

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DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7" Intermediate Single Stage	1620'	25%
7" Intermediate Two Stage	1 st Stage= 2170' / 2 nd Stage = 1620'	25%
4-1/2" Production Liner	8405'	25%
5-1/2" Production Casing	1620'	25%
7 x 5-1/2" Production Casing	1620'	25%

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	5M	Annular	x	50% of working pressure
			Blind Ram		
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	5M	Annular	x	50% testing pressure
			Blind Ram		
			Pipe Ram		
			Double Ram	x	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a

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higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
Y	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. Devon proposes using a multi-bowl wellhead assembly (FMC Uni-head). This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. - Wellhead will be installed by FMC's representatives. - If the welding is performed by a third party, the FMC's representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal. - FMC representative will install the test plug for the initial BOP test. - FMC will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time. - If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted. - Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating. - Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2. After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per

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	Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2. After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the FMC Uni-head. The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP. Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns See attached schematic.
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5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	400'	FW Gel	8.6-8.8	28-34	N/C
400'	2,120'	Saturated Brine	10.0-10.2	28-34	N/C
2,120'	13,648'	Cut Brine	8.5-9.3	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
x	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	Int. shoe to KOP
Density	Int. shoe to KOP
X CBL	Production casing
X Mud log	Intermediate shoe to TD
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4335 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H ₂ S) monitors will be installed prior to drilling out the surface shoe. If H ₂ S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe