

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 9-3-2014

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-039-31239-00-00	CLU 2506 11	002H	HUNTINGTON ENERGY, LLC	O	N	Rio Arriba	F	H	11	25	N	6	W	2511	N	10	E

Application Type:

- ☐ P&A ☐ Drilling/Casing Change ☐ Location Change
☐ Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
☐ Other:

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations
Hold C-104 for directional Survey & "As Drilled" Plat

(For hydraulic fracturing operations review EPA Underground injection control Guidance #84)

NMOCD Approved by Signature

9-11-14

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Huntington Energy, L.L.C.

3a. Address

908 N.W. 71st St.
Oklahoma City, OK 73116

3b. Phone No. (include area code)

405-840-9876

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: SENE, Lot H, Sec 11-25N-6W, 2511' FNL & 10' FEL

5. Lease Serial No.
NMSF078885

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
CLU 2506 11 #2H9. API Well No.
30-039-3123910. Field and Pool or Exploratory Area
Devil's Fork Gallup11. County or Parish, State
Rio Arriba, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☒ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☐ Other _____

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Huntington Energy, L.L.C. respectfully requests approval to change the original permitted BHL of the above referenced well to the SWNW, Lot E, Sec 11-25N-6W, 1650' FNL & 330' FWL, which is a non-standard location. The original permit was approved on August 21, 2014. Attached are the revised Form C-102 Survey Plat, Operations Plan, Drilling Plan and Wall Plat, along with the approved Non-Standard Location from the State of New Mexico Energy, Minerals and Natural Resources Department, Administrative Order: NSL-7133.

RCVD SEP 9 '14

OIL CONS. DIV.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

DIST. 3

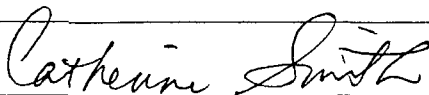
CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Catherine Smith

Title Regulatory

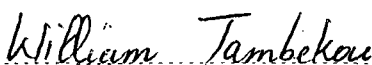
Signature



Date 09/03/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by



Title

Petroleum Engineer

Date

9/4/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

FFD

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.

(Instructions on page 2)

NMOCDA

DISTRICT I

1685 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 593-6161 Fax: (575) 593-0780

DISTRICT II

811 E. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9780

DISTRICT III

1000 Rio Brazos Rd., Artesia, N.M. 87410
Phone: (505) 834-6175 Fax: (505) 834-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-8400 Fax: (505) 476-8458

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised August 1, 2011

RECEIVED

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION SEP 04 2014
1220 South St. Francis Dr.
Santa Fe, NM 87505

Farrington Field Office AMENDED REPORT

Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-31239		2 Pool Code 17610		3 Pool Name DEVILS FORK GALLUP	
4 Property Code 313619		5 Property Name CLU 25-6-11			6 Well Number 2H
7 OGRID No. 208706		8 Operator Name HUNTINGTON ENERGY			9 Elevation 6765'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
H	11	25N	6W		2511'	NORTH	10'	EAST	RIO ARRIBA

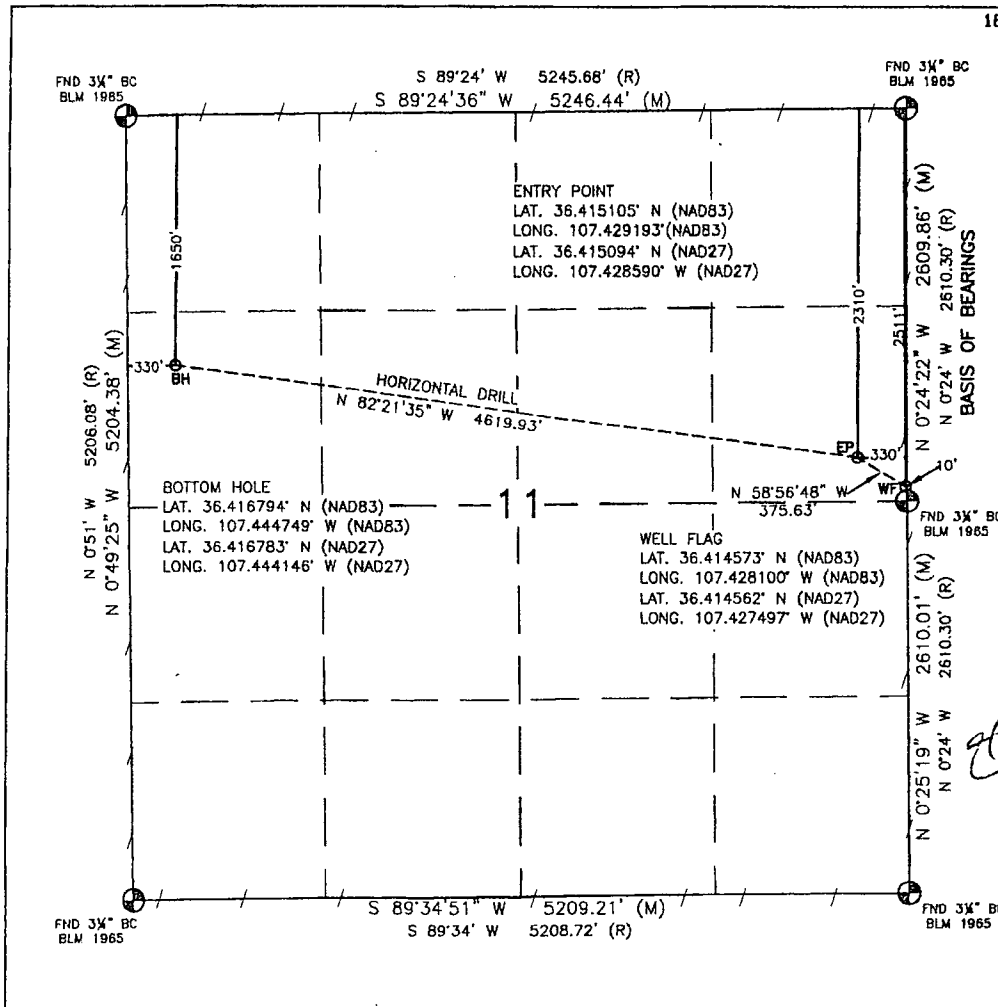
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	WEST/West line	County
E	11	25N	6W		1650'	NORTH	330'	WEST	RIO ARRIBA

12 Dedicated Acres 640	PROJECT AREA	13 Joint or Infill	14 Consolidation Code	15 Order No. NSL-7133
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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

16



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.

Catherine Smith 8/28/14
Signature Date

Catherine Smith

Printed Name

csmith@huntingtonenergy.com

E-mail Address

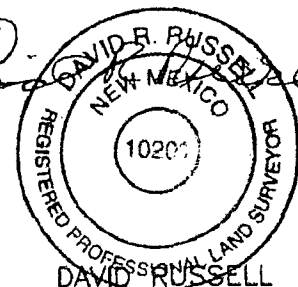
SURVEYOR CERTIFICATION

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 17, 2014

Date of Survey

Signature and Seal of Professional Surveyor:



Certificate Number

10201

RCVD SEP 9 '14

OIL CONS. DIV.

DIST. 3

HUNTINGTON ENERGY

CLU 25-6-11 #2H

2511' FNL & 10' FEL

LOCATED IN THE SE/4 NE/4 OF SECTION 11,

T25N, R6W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE BLANCO TRADING POST OFFICE, GO 1.3 MILES EAST ON HWY 64 TO CR 4450.
- 2) TURN RIGHT AND GO 3.6 MILES TO INTERSECTION.
- 3) TURN RIGHT AND CROSS BRIDGE, TRAVEL 21.8 MILES SOUTH ALONG LARGO CANYON TO OLD SCHOOL HOUSE.
- 4) TURN RIGHT AND TRAVEL 2.5 MILES.
- 5) TURN LEFT AND CROSS LARGO WASH AND GO 2.9 MILES.
- 6) TURN RIGHT AND GO TO TOP OF GONZALES MESA AND DOWN MAIN ROAD 5 MILES WHERE PAD IS STAKED.

WELL FLAG LOCATED AT LAT. 36.414573° N, LONG. 107.428100° W (NAD 83).



Operations Plan

WELL NAME: **CLU 25-6-11 #2H**
LOCATION: SHL: 2511' FNL, 10' FEL 25N-6W Sec. 11 Lot H
BHL: 1650' FNL, 330' FWL 25N-6W Sec. 11 Lot E
Rio Arriba County, NM

ELEVATION: 6,765' GL
6,777' KB

GEOLOGICAL MARKERS:

<u>Formation Tops</u>	<u>MD</u>	<u>TVD</u>
San Jose	Surface	
Ojo Alamo	2,310'	Possible Water
Kirtland	2,439'	
Fruitland	2,677'	
Pictured Cliffs	2,850'	
Lewis Shale	3,119'	
Huerfanito Bentonite	3,255'	
Chacra	3,718'	
Cliffhouse	4,435'	
Menefee	4,474'	
Point Lookout	5,088'	
Mancos	5,389'	Oil/Gas
El Vado	6,107'	Oil/Gas
Target	TD 11,375'	6,400'

CASING AND CEMENTING PROGRAM:

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>
12-1/4"	0 - 450'	9-5/8"	36.0#	J-55
8-3/4"	0 - 6,756'	7"	26.0#	N-80
6-1/8"	0 - 11,375'	4-1/2"	11.6#	P-110

CEMENTING:

Surface Casing - 9-5/8"

Cement to surface w/153 sacks Type III neat (37 bbls, 14.6 ppg).
WOC 8 hr. Prior to drilling out surface casing, test casing to 600 psi for 30 minutes.
10 Centralizers to be installed.

Intermediate Casing - 7"

Lead 610 sacks Premium Lite FM + 3% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 5 lbs/sack LCM-1 +0.4% bwoc FL-52A + 8% bwoc Bentonite +0.4% bwoc Sodium Metasilicate (232 bbls, 12.1 ppg)
Tail 235 sacks Type III Cement + 1% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.2% bwoc FL-52A (58 bbls, 14.6 ppg). Cement to surface.
60 Centralizers to be installed. WOC. Test casing to 1500 psi for 30 minutes.

Production Casing -

4-1/2"

Lead w/272 sacks Premium Lite High Strength + 0.7% bwoc R-3 + 3% bwoc Potassium Chloride + 0.5% bwoc CD-32 + 5 lbs/sack LCM-1 + 0.25 lbs/sack Cello Flake + 1.15% bwoc FL-52A (106 bbls, 12.5 ppg)

Tail w/ 85 sacks Premium Lite High Strength + 0.7% bwoc R-3 + 3% bwoc Potassium Chloride + 0.25 lbs/sack Cello Flake + 5 lbs/sack LCM-1 + 0.5% bwoc CD-32 + 1.15% bwoc FL-52A (27 bbls, 13.5 ppg). Est TOC @ 5800'. 60

Centralizers to be installed. WOC. Test csg to 1500 psi for 30 mins.

PRESSURE CONTROL EQUIPMENT:

See Attached BOPE & Choke Manifold Schematic for a diagram of pressure control equipment

Pressure control configuration will be designed to meet and exceed 2M standards.

All equipment will have 3M pressure ratings

During stimulation stages a wellhead isolation sleeve (10,000 psi) will be used

DRILLING FLUIDS:

Mud Program:

<u>Depth Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Invert Ratio</u>
0 - 450'	Spud	8.4 - 8.6	30 - 35	no control	
0 - 6,756'	LSND	9.0 - 10.5	38 - 42	8 - 12	
0 - 11,375'	ND	8.5 - 9.5	36 - 40	< 1	

Closed loop equipment will be utilized for solids control. Cuttings from production hole will be hauled off to an approved disposal site.

PRESSURE AND HAZARDS:

No abnormal or temperatures are anticipated.

No hydrogen sulfide gas is expected on nearby well production.

Maximum bottom hole pressure will be +/- 2,200 psi

Anticipated Pore Pressures

Fruitland Coal	950 psi
Pictured Cliffs	1,030 psi
Mesaverde	1,680 psi
Gallup	2,200 psi

TESTS, LOGS, CORING:

Mud log - KOP to TD

Logs - GR/CCL during perforating stages

LWD - Gamma Ray, Resistivity

Cores & DST's - None

DIRECTIONAL PLAN:

The wellbore directional plan and survey plat (C-102) are attached.

The production hole will be landed and drilled within the target formation horizontally utilizing LWD equipment to help steer the wellbore. Adjustments will be made to the directional plan as formation and hole indicates during drilling.

OTHER INFORMATION:

- 1) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control
- 2) This gas is dedicated

Huntington Energy

Project: Rio Arriba (NM83C)
Site: Sec 11-T25N-R6W
Well: CLU 25-06-11 #2H
Wellbore: Actual
Design: 07-29-14



Azimuths to True North
Magnetic North: 9.38°

Magnetic Field
Strength: 50364.9nT
Dip Angle: 63.18°
Date: 2014/04/04
Model: IGRF2010



WELL DETAILS: CLU 25-06-11 #2H

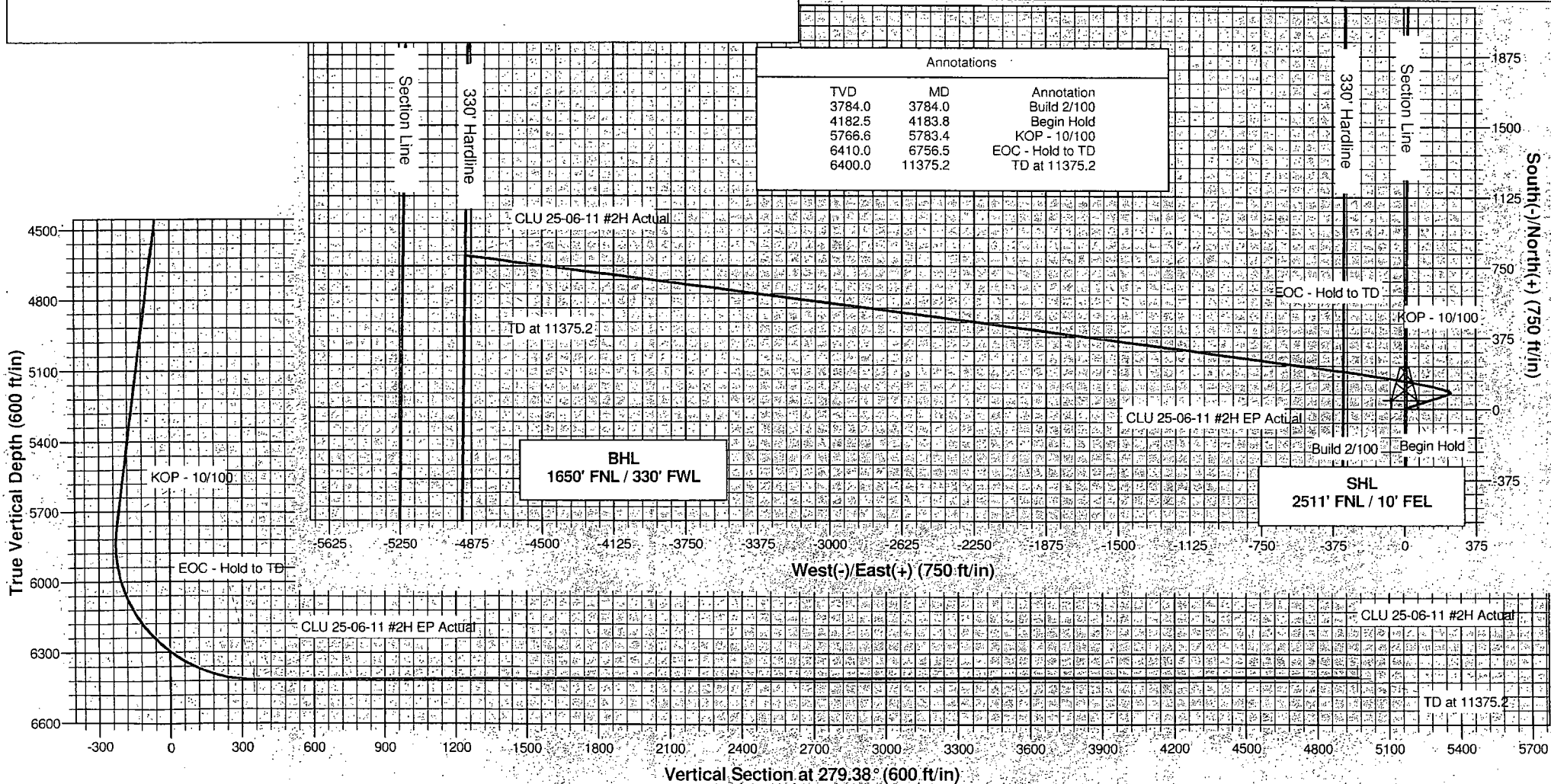
+N/-S	+E/-W	Northing	Ground Level:	0.0	Easting	Latitude	Longitude
0.0	0.0	1972290.51	1293781.03	36° 24' 52.463 N	107° 25' 41.160 W		
SHL 2511' FNL / 10' FEL							
BHL 1650' FNL / 330' FWL							

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CLU 25-06-11 #2H Actual	6400.0	809.0	-4899.1	36° 25' 0.458 N	107° 26' 41.096 W	Point
CLU 25-06-11 #2H EP Actual	6410.0	193.7	-321.6	36° 24' 54.378 N	107° 25' 45.095 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3784.0	0.00	0.00	3784.0	0.0	0.0	0.00	0.00	0.0	
3	4183.8	8.00	71.72	4182.5	8.7	26.4	2.00	71.72	-24.7	
4	5783.4	8.00	71.72	5766.6	78.5	237.7	0.00	0.00	-221.7	
5	6756.5	90.12	277.66	6410.0	193.7	-321.6	10.00	-153.83	348.9	CLU 25-06-11 #2H EP Actual
6	11375.2	90.12	277.66	6400.0	809.0	-4899.1	0.00	0.00	4965.5	CLU 25-06-11 #2H Actual



Wolverine Directinal, LLC

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well: CLU 25-06-11 #2H
Company:	Huntington Energy	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Project:	Rio Arriba (NM83C)	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 11-T25N-R6W	North Reference:	True
Well:	CLU 25-06-11 #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Actual		
Design:	07-29-14		

Project:	Rio Arriba (NM83C)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site:	Sec 11-T25N-R6W		
Site Position:		Northing:	1,972,290.51ft
From:	Lat/Long	Easting:	1,293,781.03ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 24' 52.463 N
		Longitude:	107° 25' 41.160 W
		Grid Convergence:	-0.70 °

Well:	CLU 25-06-11 #2H		
Well Position	+N-S	0.0 ft	Northing: 1,972,290.51ft
	+E-W	0.0 ft	Easting: 1,293,781.03ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 24' 52.463 N
		Longitude:	107° 25' 41.160 W
		Ground Level:	0.0ft

Wellbore:	Actual				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2014/04/04	9.38	63.18	50,365

Design:	07-29-14				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	279.38	

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,784.0	0.00	0.00	3,784.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,183.8	8.00	71.72	4,182.5	8.7	26.4	2.00	2.00	0.00	71.72	
5,783.4	8.00	71.72	5,766.6	78.5	237.7	0.00	0.00	0.00	0.00	
6,756.5	90.12	277.66	6,410.0	193.7	-321.6	10.00	8.44	-15.83	-153.83	CLU 25-06-11 #2H
11,375.2	90.12	277.66	6,400.0	809.0	-4,899.1	0.00	0.00	0.00	0.00	CLU 25-06-11 #2H

Wolverine Directinal, LLC

Planning Report

Database:	EDM 2003.21 Single User Db	Local/Co-ordinate/Reference:	Well: CLU 25-06-11 #2H
Company:	Huntington Energy	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Project:	Rio Arriba (NM83C)	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 11-T25N-R6W	North Reference:	True
Well:	CLU 25-06-11 #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Actual		
Design:	07-29-14		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (%/100ft)	Build Rate (%/100ft)	Turn Rate (%/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
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
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,784.0	0.00	0.00	3,784.0	0.0	0.0	0.0	0.00	0.00	0.00
Build 2/100									
3,800.0	0.32	71.72	3,800.0	0.0	0.0	0.0	2.00	2.00	0.00
3,900.0	2.32	71.72	3,900.0	0.7	2.2	-2.1	2.00	2.00	0.00
4,000.0	4.32	71.72	3,999.8	2.6	7.7	-7.2	2.00	2.00	0.00
4,100.0	6.32	71.72	4,099.4	5.5	16.5	-15.4	2.00	2.00	0.00
4,183.8	8.00	71.72	4,182.5	8.7	26.4	-24.7	2.00	2.00	0.00
Begin Hold									
4,200.0	8.00	71.72	4,198.5	9.4	28.6	-26.7	0.00	0.00	0.00
4,300.0	8.00	71.72	4,297.6	13.8	41.8	-39.0	0.00	0.00	0.00
4,400.0	8.00	71.72	4,396.6	18.2	55.0	-51.3	0.00	0.00	0.00
4,500.0	8.00	71.72	4,495.6	22.5	68.2	-63.6	0.00	0.00	0.00
4,600.0	8.00	71.72	4,594.7	26.9	81.4	-75.9	0.00	0.00	0.00
4,700.0	8.00	71.72	4,693.7	31.3	94.6	-88.3	0.00	0.00	0.00
4,800.0	8.00	71.72	4,792.7	35.6	107.8	-100.6	0.00	0.00	0.00
4,900.0	8.00	71.72	4,891.7	40.0	121.0	-112.9	0.00	0.00	0.00

Wolverine Directinal, LLC

Planning Report

Database:	EDM 2003.21 Single User Db	Local/Co-ordinate Reference:	Well-CLU 25-06-11 #2H
Company:	Huntington Energy	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Project:	Rio Arriba (NM83C)	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 11-T25N-R6W	North Reference:	True
Well:	CLU 25-06-11 #2H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	Actual		
Design:	07-29-14		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	8.00	71.72	4,990.8	44.3	134.2	-125.2	0.00	0.00	0.00
5,100.0	8.00	71.72	5,089.8	48.7	147.4	-137.5	0.00	0.00	0.00
5,200.0	8.00	71.72	5,188.8	53.1	160.7	-149.9	0.00	0.00	0.00
5,300.0	8.00	71.72	5,287.9	57.4	173.9	-162.2	0.00	0.00	0.00
5,400.0	8.00	71.72	5,386.9	61.8	187.1	-174.5	0.00	0.00	0.00
5,500.0	8.00	71.72	5,485.9	66.2	200.3	-186.8	0.00	0.00	0.00
5,600.0	8.00	71.72	5,584.9	70.5	213.5	-199.1	0.00	0.00	0.00
5,700.0	8.00	71.72	5,684.0	74.9	226.7	-211.5	0.00	0.00	0.00
5,783.4	8.00	71.72	5,766.6	78.5	237.7	-221.7	0.00	0.00	0.00
KOP - 10/100									
5,800.0	6.55	65.30	5,783.0	79.3	239.7	-223.5	10.00	-8.73	-38.74
5,850.0	3.56	16.22	5,832.8	82.0	242.7	-226.1	10.00	-5.99	-98.16
5,900.0	5.69	315.77	5,882.7	85.2	241.4	-224.3	10.00	4.26	-120.90
5,950.0	10.10	297.85	5,932.2	89.1	235.8	-218.1	10.00	8.82	-35.85
6,000.0	14.88	291.03	5,981.0	93.4	225.9	-207.7	10.00	9.57	-13.64
6,050.0	19.77	287.51	6,028.7	98.3	211.8	-193.0	10.00	9.78	-7.05
6,100.0	24.71	285.34	6,075.0	103.6	193.7	-174.2	10.00	9.87	-4.33
6,150.0	29.66	283.86	6,119.5	109.3	171.6	-151.5	10.00	9.91	-2.96
6,200.0	34.63	282.77	6,161.8	115.4	145.7	-124.9	10.00	9.93	-2.18
6,250.0	39.60	281.92	6,201.7	121.9	116.2	-94.8	10.00	9.95	-1.69
6,300.0	44.58	281.24	6,238.8	128.6	83.4	-61.3	10.00	9.96	-1.37
6,350.0	49.56	280.67	6,272.8	135.5	47.5	-24.8	10.00	9.96	-1.15
6,400.0	54.55	280.17	6,303.5	142.6	8.7	14.6	10.00	9.97	-0.99
6,450.0	59.53	279.74	6,330.7	149.9	-32.6	56.6	10.00	9.97	-0.87
6,500.0	64.52	279.34	6,354.2	157.2	-76.1	100.7	10.00	9.98	-0.79
6,550.0	69.51	278.98	6,373.7	164.5	-121.6	146.7	10.00	9.98	-0.72
6,600.0	74.50	278.64	6,389.1	171.8	-168.5	194.3	10.00	9.98	-0.68
6,650.0	79.49	278.32	6,400.4	179.0	-216.7	243.0	10.00	9.98	-0.65
6,700.0	84.48	278.00	6,407.3	186.0	-265.7	292.5	10.00	9.98	-0.63
6,750.0	89.47	277.70	6,410.0	192.8	-315.2	342.4	10.00	9.98	-0.62
6,756.5	90.12	277.66	6,410.0	193.7	-321.6	348.9	10.00	9.98	-0.61
EOC - Hold to TD									
6,800.0	90.12	277.66	6,409.9	199.5	-364.7	392.3	0.00	0.00	0.00
6,900.0	90.12	277.66	6,409.7	212.8	-463.8	492.3	0.00	0.00	0.00
7,000.0	90.12	277.66	6,409.5	226.1	-562.9	592.2	0.00	0.00	0.00
7,100.0	90.12	277.66	6,409.3	239.5	-662.0	692.2	0.00	0.00	0.00
7,200.0	90.12	277.66	6,409.0	252.8	-761.1	792.2	0.00	0.00	0.00
7,300.0	90.12	277.66	6,408.8	266.1	-860.3	892.1	0.00	0.00	0.00
7,400.0	90.12	277.66	6,408.6	279.4	-959.4	992.1	0.00	0.00	0.00
7,500.0	90.12	277.66	6,408.4	292.7	-1,058.5	1,092.0	0.00	0.00	0.00
7,600.0	90.12	277.66	6,408.2	306.1	-1,157.6	1,192.0	0.00	0.00	0.00
7,700.0	90.12	277.66	6,408.0	319.4	-1,256.7	1,291.9	0.00	0.00	0.00
7,800.0	90.12	277.66	6,407.7	332.7	-1,355.8	1,391.9	0.00	0.00	0.00
7,900.0	90.12	277.66	6,407.5	346.0	-1,454.9	1,491.8	0.00	0.00	0.00
8,000.0	90.12	277.66	6,407.3	359.4	-1,554.0	1,591.8	0.00	0.00	0.00
8,100.0	90.12	277.66	6,407.1	372.7	-1,653.1	1,691.7	0.00	0.00	0.00
8,200.0	90.12	277.66	6,406.9	386.0	-1,752.2	1,791.7	0.00	0.00	0.00
8,300.0	90.12	277.66	6,406.7	399.3	-1,851.3	1,891.7	0.00	0.00	0.00
8,400.0	90.12	277.66	6,406.4	412.6	-1,950.4	1,991.6	0.00	0.00	0.00
8,500.0	90.12	277.66	6,406.2	426.0	-2,049.6	2,091.6	0.00	0.00	0.00
8,600.0	90.12	277.66	6,406.0	439.3	-2,148.7	2,191.5	0.00	0.00	0.00
8,700.0	90.12	277.66	6,405.8	452.6	-2,247.8	2,291.5	0.00	0.00	0.00
8,800.0	90.12	277.66	6,405.6	465.9	-2,346.9	2,391.4	0.00	0.00	0.00
8,900.0	90.12	277.66	6,405.4	479.3	-2,446.0	2,491.4	0.00	0.00	0.00

Wolverine Directinal, LLC

Planning Report

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well: CLU 25-06-11 #2H
Company:	Huntington Energy	TVD Reference:	WELL @ 0.0ft (Original Well Elev)
Project:	Rio Arriba (NM83C)	MD Reference:	WELL @ 0.0ft (Original Well Elev)
Site:	Sec 11-T25N-R6W	North Reference:	True
Well:	CLU 25-06-11 #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Actual		
Design:	07-29-14		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,000.0	90.12	277.66	6,405.1	492.6	-2,545.1	2,591.3	0.00	0.00	0.00
9,100.0	90.12	277.66	6,404.9	505.9	-2,644.2	2,691.3	0.00	0.00	0.00
9,200.0	90.12	277.66	6,404.7	519.2	-2,743.3	2,791.3	0.00	0.00	0.00
9,300.0	90.12	277.66	6,404.5	532.6	-2,842.4	2,891.2	0.00	0.00	0.00
9,400.0	90.12	277.66	6,404.3	545.9	-2,941.5	2,991.2	0.00	0.00	0.00
9,500.0	90.12	277.66	6,404.1	559.2	-3,040.6	3,091.1	0.00	0.00	0.00
9,600.0	90.12	277.66	6,403.8	572.5	-3,139.7	3,191.1	0.00	0.00	0.00
9,700.0	90.12	277.66	6,403.6	585.8	-3,238.9	3,291.0	0.00	0.00	0.00
9,800.0	90.12	277.66	6,403.4	599.2	-3,338.0	3,391.0	0.00	0.00	0.00
9,900.0	90.12	277.66	6,403.2	612.5	-3,437.1	3,490.9	0.00	0.00	0.00
10,000.0	90.12	277.66	6,403.0	625.8	-3,536.2	3,590.9	0.00	0.00	0.00
10,100.0	90.12	277.66	6,402.8	639.1	-3,635.3	3,690.8	0.00	0.00	0.00
10,200.0	90.12	277.66	6,402.5	652.5	-3,734.4	3,790.8	0.00	0.00	0.00
10,300.0	90.12	277.66	6,402.3	665.8	-3,833.5	3,890.8	0.00	0.00	0.00
10,400.0	90.12	277.66	6,402.1	679.1	-3,932.6	3,990.7	0.00	0.00	0.00
10,500.0	90.12	277.66	6,401.9	692.4	-4,031.7	4,090.7	0.00	0.00	0.00
10,600.0	90.12	277.66	6,401.7	705.8	-4,130.8	4,190.6	0.00	0.00	0.00
10,700.0	90.12	277.66	6,401.5	719.1	-4,229.9	4,290.6	0.00	0.00	0.00
10,800.0	90.12	277.66	6,401.2	732.4	-4,329.0	4,390.5	0.00	0.00	0.00
10,900.0	90.12	277.66	6,401.0	745.7	-4,428.2	4,490.5	0.00	0.00	0.00
11,000.0	90.12	277.66	6,400.8	759.0	-4,527.3	4,590.4	0.00	0.00	0.00
11,100.0	90.12	277.66	6,400.6	772.4	-4,626.4	4,690.4	0.00	0.00	0.00
11,200.0	90.12	277.66	6,400.4	785.7	-4,725.5	4,790.3	0.00	0.00	0.00
11,300.0	90.12	277.66	6,400.2	799.0	-4,824.6	4,890.3	0.00	0.00	0.00
11,375.2	90.12	277.66	6,400.0	809.0	-4,899.1	4,965.5	0.00	0.00	0.00
TD at 11375.2									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,784.0	3,784.0	0.0	0.0	Build 2/100
4,183.8	4,182.5	8.7	26.4	Begin Hold
5,783.4	5,766.6	78.5	237.7	KOP - 10/100
6,756.5	6,410.0	193.7	-321.6	EOC - Hold to TD
11,375.2	6,400.0	809.0	-4,899.1	TD at 11375.2

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



August 13, 2014

Huntington Energy, LLC
Attn: Mr. Thomas Dugan

ADMINISTRATIVE NON-STANDARD LOCATION ORDER

Administrative Order NSL-7133
Administrative Application Reference No. pMAM1419757854

Huntington Energy, LLC
OGRID 208706
CLU 25-6-11 Well No. 2H
API No. 30-039-pending

Proposed Location:

	<u>Footages</u>	<u>Unit</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	2511 FNL & 10 FEL	H	11	25N	6W	Rio Arriba
Penetration Point	2310 FNL & 330 FEL	H	11	25N	6W	Rio Arriba
Terminus	1650 FNL & 330 FWL	E	11	25N	6W	Rio Arriba

Proposed Project Area:

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
S/2 N/2 of Section 11	160	Devils Fork Gallup (Associated)	17610

Reference is made to your application received on July 23, 2014.

You have requested to drill this horizontal well at an unorthodox oil well location described above in the referenced pool or formation. This location is governed, by the Special Rules for the Devils Fork Gallup (Associated) Pool, which provides for 160-acre units, with wells located at least 790 feet from the boundary of a governmental quarter section, and Rule 19.15.16.14.B(2) NMAC concerning directional wells in designated project areas. This location is unorthodox because portions of the proposed completed interval are closer to outside boundaries of the proposed project area than any location that would be a standard location under the applicable pool rules.

August 13, 2014

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Your application has been duly filed under the provisions of Division Rules 19.15.15.13 NMAC and 19.15.4.12.A(2) NMAC.

It is our understanding that you are seeking this location due to achieve efficient production of the hydrocarbon reserves and prevent waste.

It is also understood that you have given due notice of this application to all operators or owners who are "affected persons," as defined in Rule 19.15.4.12 (A) 2 NMAC, in all adjoining units towards which the proposed location encroaches.

Pursuant to the authority conferred by Division Rule 19.15.15.13 (B) NMAC, the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 19.15.5.9 NMAC.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Done at Santa Fe, New Mexico, on August 13, 2014.



Jami Bailey
Director

JB/mam

cc: New Mexico Oil Conservation Division – Aztec
Bureau of Land Management – Farmington