

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

Form C-103
Revised July 18, 2013

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

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. 30-015-42897
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Devon Energy Production Company, LP 405-228-7203		6. State Oil & Gas Lease No.
3. Address of Operator 333 West. Sheridan Avenue Oklahoma City, OK 73102-5015 405-228-7203		7. Lease Name or Unit Agreement Name Belloq 2 State
4. Well Location Lot Number 3 : 200 feet from the NORTH line and 1770 feet from the WEST line Section 2 Township 23S Range 31E NMPM Eddy County		8. Well Number 6H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3430.1' GL		9. OGRID Number 6137
		10. Pool name or Wildcat Livingston Ridge; Bone Spring

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: BHL Change ☒

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 Energy Production Co. L.P. respectfully requests to change the BHL on the Belloq 2 State 6H

FROM: 330 FSL & 2030 FWL, Sec. 2 T23S R31E

TO: 330 FSL & 2210 FWL, Sec. 2 T23S R31E

Please see attached C-102 reflecting these changes. Also, the drilling plan and directional survey have been attached as well although they did not require any revisions.

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 17 2015

RECEIVED

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

SIGNATURE

Trina C. Couch

TITLE: Regulatory Analyst

DATE 2/13/2015

Type or print name: Trina C. Couch

E-mail address: trina.couch@dvn.com

PHONE: 405-228-7203

For State Use Only

APPROVED BY:

Dr. H. D. Spewer

TITLE

Dr. H. D. Spewer

DATE

2/17/2015

Conditions of Approval (if any):



30-015-42897
Belloq 2 State 6H
BHL Change

- C-102
- Drilling Plan
- Directional Survey

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 17 2015

Form C-102

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) 748-0720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1720 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

RECEIVED

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

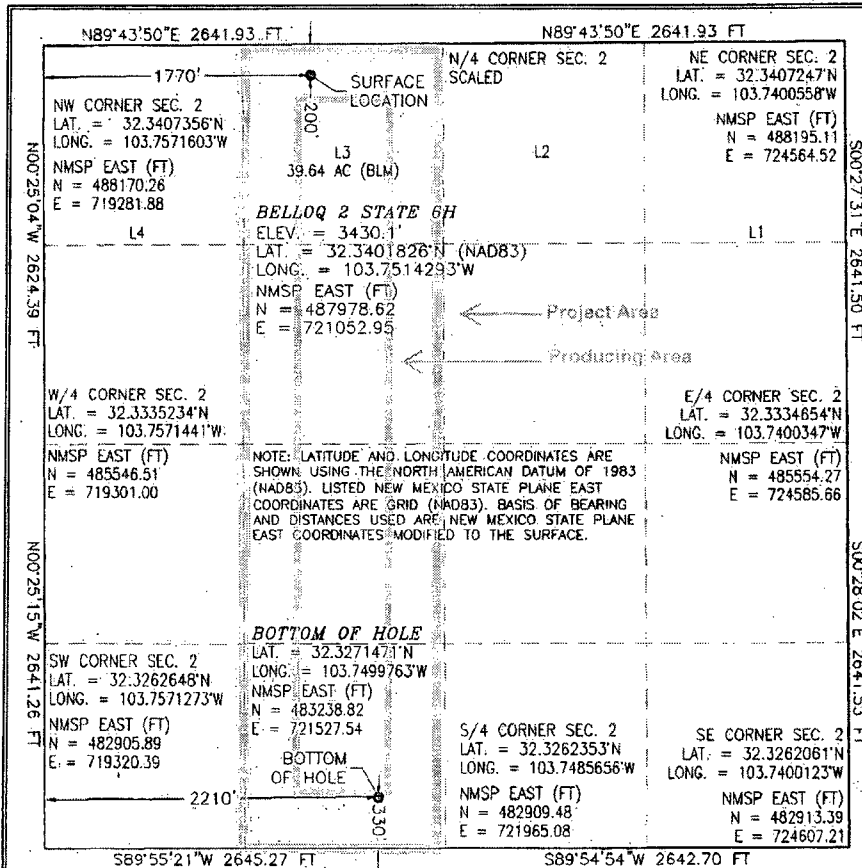
¹ API Number 30-015-42897		² Pool Code 39350		³ Pool Name Livingston Ridge; Bone Spring	
⁴ Property Code 314092		⁵ Property Name BELLOQ 2 STATE			⁶ Well Number 6H
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			⁹ Elevation 3430.1

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
3	2	23 S	31 E		200	NORTH	1770	WEST	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
N	2	23 S	31 E		330	SOUTH	2210	WEST	EDDY

¹² Dedicated Acres 159.64 ac	¹³ Joint or Infill.	¹⁴ Consolidation Code	¹⁵ Order No.
--	--------------------------------	----------------------------------	-------------------------

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.



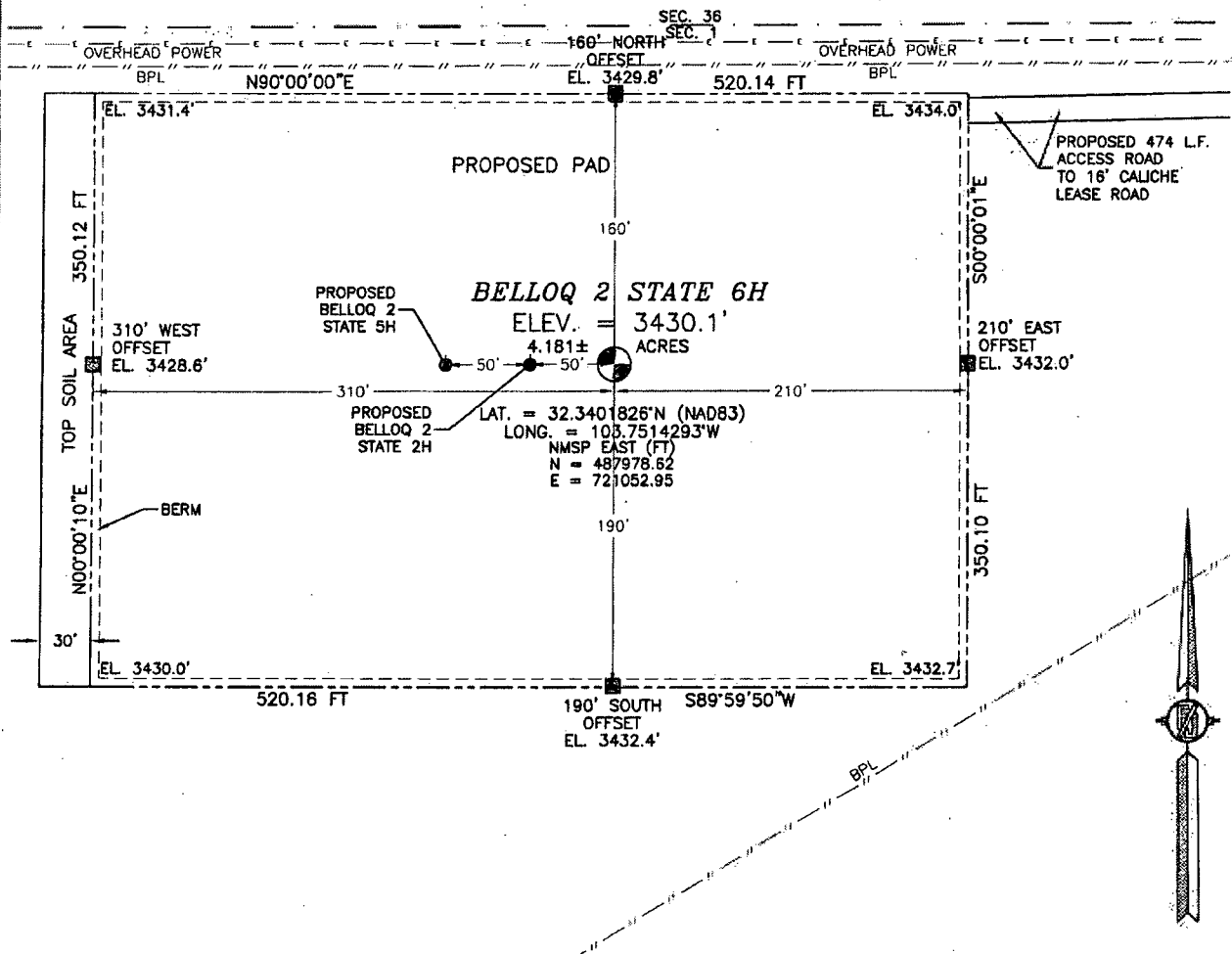
¹⁷ OPERATOR CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right 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.	
Signature: <i>Trina C. Couch</i>	Date: 2/13/15
Trina C. Couch, Regulatory Analyst	
Printed Name	
trina.couch@dmv.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 are true and correct to the best of my belief.	
FEBRUARY 9 2015	
Date of Survey	
Signature and Seal of Certified Surveyor	
Certificate Number: FIDELIN E. SARAMILLO, PLS 12797	
SURVEY NO. 35654	

FEB 17 2015

RECEIVED

SECTION 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE.



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF SR. 128 (JAL HWY) AND CR. 798 (RED ROAD) GO NORTH ON RED ROAD 6.15 MILES TO CALICHE LEASE ROAD ON LEFT BETWEEN POWER POLES GO WEST ON CALICHE LEASE ROAD 0.5 MILES TO END OF CALICHE LEASE ROAD FOLLOW FLAGS WEST 474 L.F. TO NORTHEAST CORNER OF PROPOSED PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELLOQ 2 STATE 6H

LOCATED 200 FT. FROM THE NORTH LINE
AND 1770 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

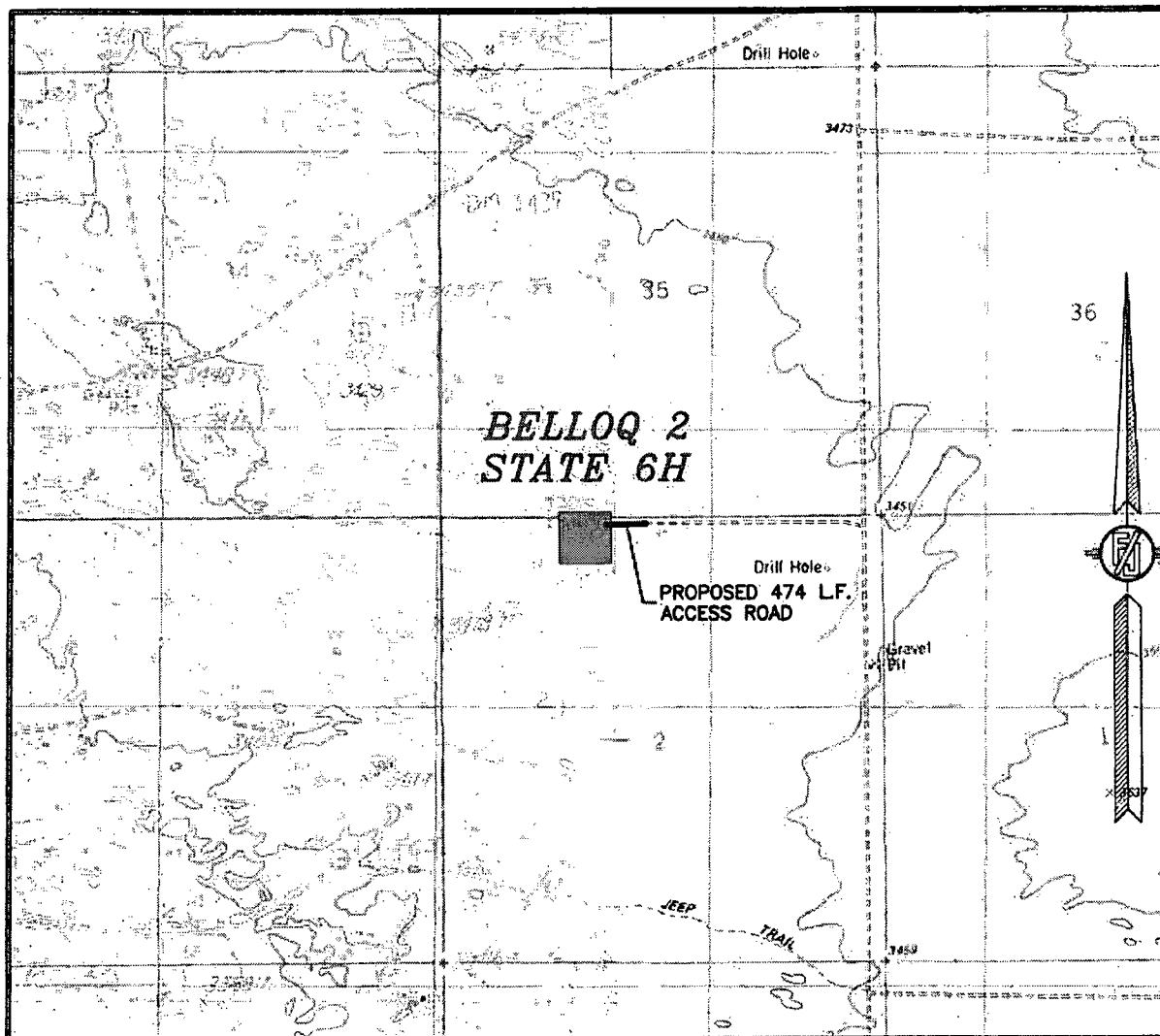
FEBRUARY 5, 2015

SURVEY NO. 3565A

MADRON SURVEYING, INC. 301. SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

FEB 17 2015

SECTION 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
LOS MEDANOS
BOOTLEG RIDGE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELLOQ 2 STATE 6H

LOCATED 200 FT. FROM THE NORTH LINE
AND 1770 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 5, 2015

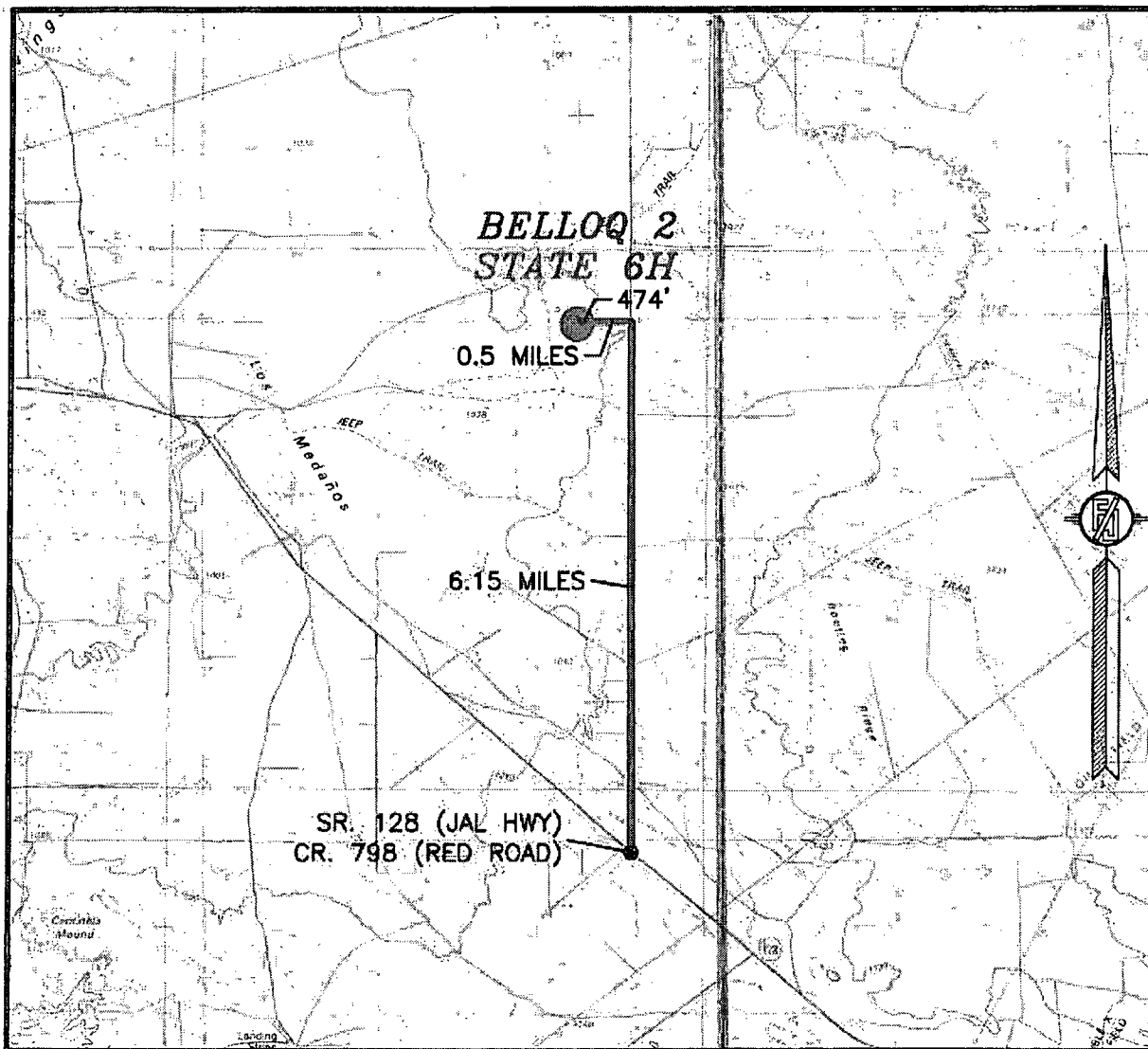
SURVEY NO. 3565A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

FEB 17 2015

RECEIVED

SECTION 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF SR. 128 (JAL HWY) AND CR. 798 (RED ROAD) GO NORTH ON RED ROAD 6.15 MILES TO CALICHE LEASE ROAD ON LEFT BETWEEN POWER POLES GO WEST ON CALICHE LEASE ROAD 0.5 MILES TO END OF CALICHE LEASE ROAD FOLLOW FLAGS WEST 474 LF. TO NORTHEAST CORNER OF PROPOSED PAD

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELLOQ 2 STATE 6H

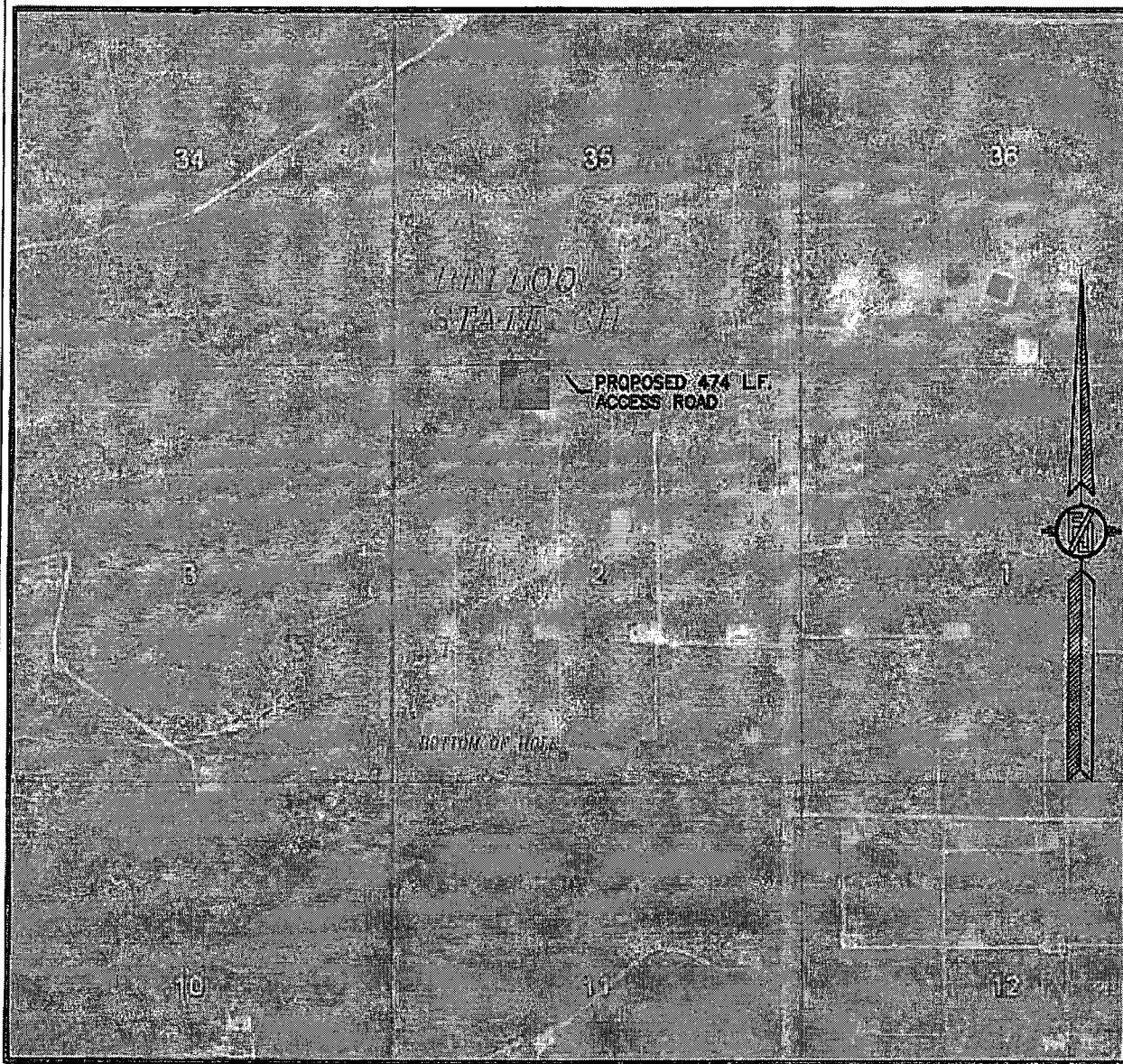
LOCATED 200 FT. FROM THE NORTH LINE
AND 1770 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 5, 2015

SURVEY NO. 3565A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 234-3341

SECTION 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEB. 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELLOQ 2 STATE 6H

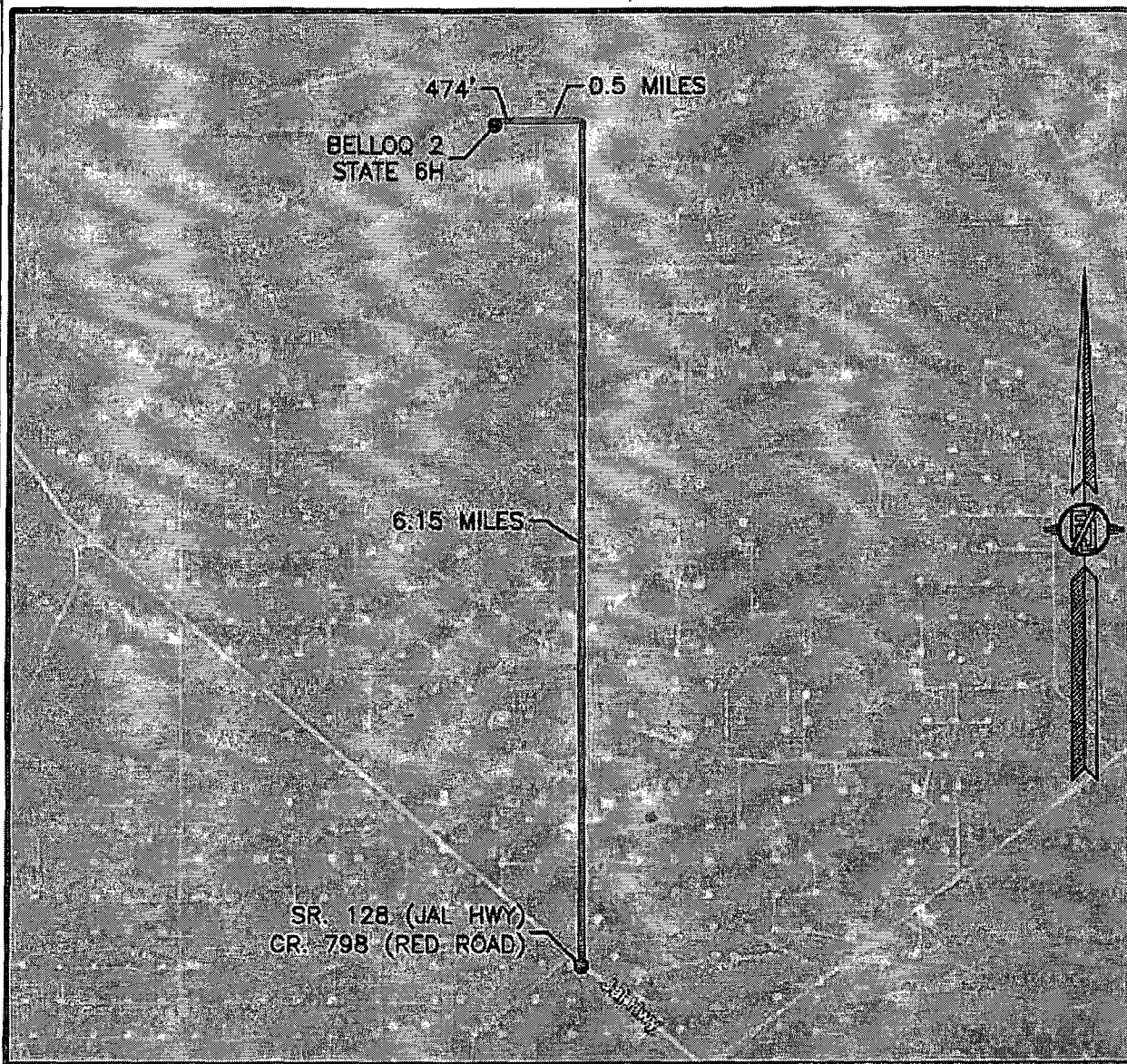
LOCATED 200 FT. FROM THE NORTH LINE
AND 1770 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 5, 2015

SURVEY NO. 3565A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEB. 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
BELLOQ 2 STATE 6H

LOCATED 200 FT. FROM THE NORTH LINE
AND 1770 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 5, 2015

SURVEY NO. 3565A

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3341 CARLSBAD, NEW MEXICO

Devon Energy, Belloq 2 State 6H

1. Geologic Formations

TVD of target	10,345'	Pilot hole depth	N/A
MD at TD:	14,848'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	623	Water	
Top Salt	899	Salt	
Base of Salt	4166	Salt	
Lamar	4373	Barren	
Bell Canyon	4428	Oil	
Cherry Canyon	5284	Oil	
Brushy Canyon	6516	Oil	
Bone Spring	8232	Oil	
1st Bone Spring Sd.	9287	Oil	
2nd Bone Spring Sd.	10033	Target Zone	
3rd Bone Spring Lm.	10400	Oil	
3rd Bone Spring Sd.	11026	Oil	
Wolfcamp	11505	Oil	
B/ Wolfcamp Sd.	11663	Oil	

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

Devon Energy, Belloq 2 State 6H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	700	13.375"	48	H40	STC	2.40	5.40	16.10
12.25"	0	4250	9.625"	40	J55	LTC	1.16	1.79	3.06
8.75"	0	14848	5.5"	17	P110	BTC	1.73	2.15	2.25
BLM Minimum Safety Factor							1.125	1	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, Belloq 2 State 6H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
Surf.	770	14.8	6.32	1.33	7	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
Inter.	900	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
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
5.5" Prod.	890	12.5	10.86	1.96	30	1 st Lead: (65:35) Class H Cement: Poz (Fly Ash) + 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake
	1340	14.5	5.31	1.2	25	1 st 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/ECP Tool 4300'					
	60	11	14.81	2.55	22	2 nd stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	110	14.8	6.32	1.33	6	2 nd stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake

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
Surface	0'	100%
Intermediate	0'	75%
Production	1 st Stage = 4300' / 2 nd Stage = 3250'	25%

Devon Energy, Belloq 2 State 6H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
---	--

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	x	50% of working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	x	
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram		3M
			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 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.
---	---

Devon Energy, Belloq 2 State 6H

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 3000 (3M) 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 3M, 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 3M will be installed on the FMC Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per 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 3M 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 3,000 psi WP.

Devon Energy, Belloq 2 State 6H

	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.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	700'	FW Gel	8.6-8.8	28-34	N/C
700'	4,250'	Saturated Brine	10.0-10.2	28-34	N/C
4,250'	14,848'	Cut Brine	8.5-9.2	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
---	-----------------------------

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	

Devon Energy, Belloq 2 State 6H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4949 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S 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	H2S is present
Y	H2S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

Attachments

☒ Directional Plan

☐ Other, describe

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Belloq 2 State
Well: 6H
Wellbore: OH
Design: Plan #1



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.10°

Magnetic Field
Strength: 48261.5snT
Dip Angle: 60.17°
Date: 1/8/2015
Model: BGGM2014

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



DESIGN TARGET DETAILS

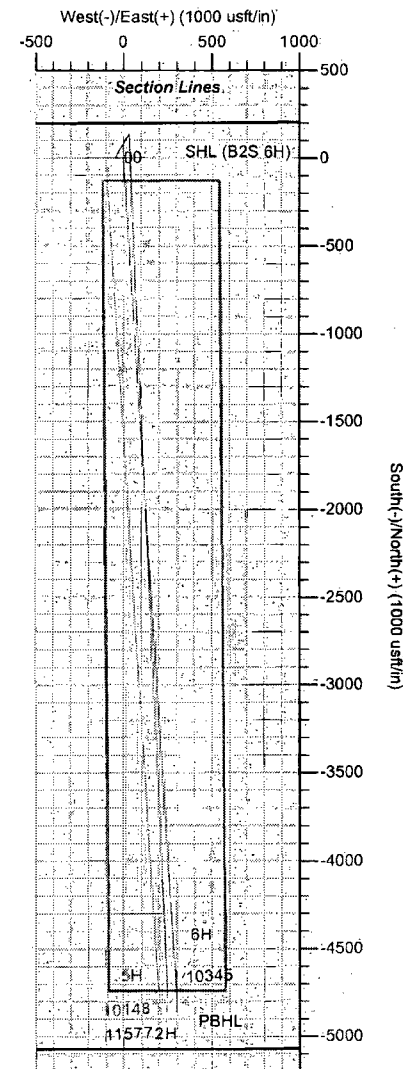
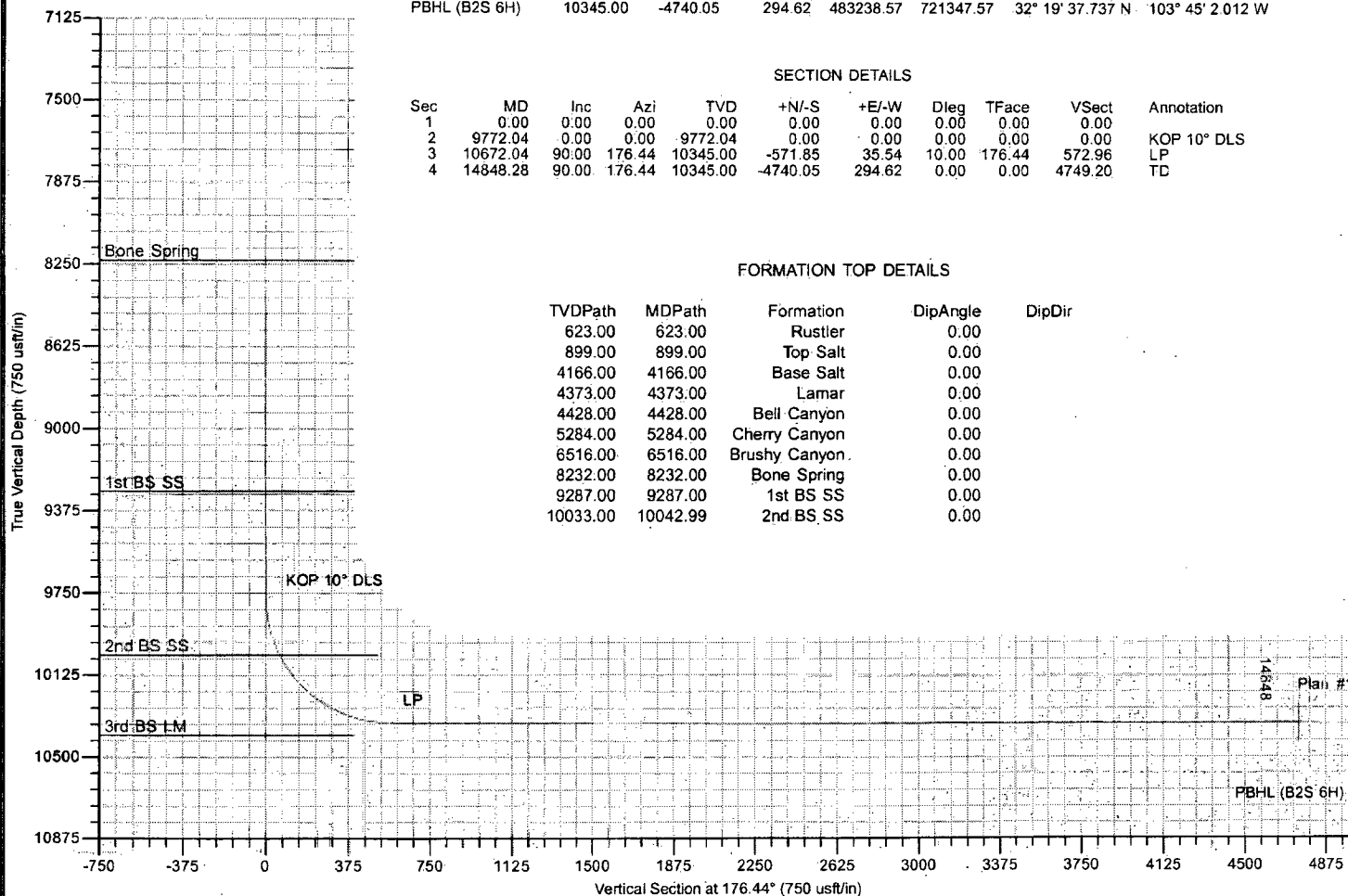
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (B2S 6H)	0.00	0.00	0.00	487978.62	721052.95	32° 20' 24.657 N	103° 45' 5.146 W
PBHL (B2S 6H)	10345.00	-4740.05	294.62	483238.57	721347.57	32° 19' 37.737 N	103° 45' 2.012 W

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	9772.04	0.00	0.00	9772.04	0.00	0.00	0.00	0.00	0.00	KOP 10° DLS
3	10672.04	90.00	176.44	10345.00	-571.85	35.54	10.00	176.44	572.96	LP
4	14848.28	90.00	176.44	10345.00	-4740.05	294.62	0.00	0.00	4749.20	TC

FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation	DipAngle	DipDir
623.00	623.00	Rustler	0.00	
899.00	899.00	Top Salt	0.00	
4166.00	4166.00	Base Salt	0.00	
4373.00	4373.00	Lamar	0.00	
4428.00	4428.00	Bell Canyon	0.00	
5284.00	5284.00	Cherry Canyon	0.00	
6516.00	6516.00	Brushy Canyon	0.00	
8232.00	8232.00	Bone Spring	0.00	
9287.00	9287.00	1st BS SS	0.00	
10033.00	10042.99	2nd 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 (6H/OH)
Belloq 2 State
Created By: Brady Deaver
Date: 16:51, January 08 2015
Approved: _____ Date: _____



LEAM

Drilling Systems, Inc.

DEVON ENERGY

Eddy County, NM (NAD-83)

Belloq 2 State

6H

OH

Plan: Plan #1

Standard Planning Report

08 January, 2015


devon



LEAM Drilling Systems LLC Planning Report



Database:	EDM:5000.1:Single User Db	Local Co-ordinate Reference:	Well 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	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:	Belloq 2 State		
Site Position:		Northing:	487,978.37 usft
From:	Map	Easting:	721,002.96 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 20' 24.657 N
		Longitude:	103° 45' 5.728 W
		Grid Convergence:	-0.31 °

Well	6H:2nd BS:SS					
Well Position	+N/-S	0.25 usft	Northing:	487,978.62 usft	Latitude:	32° 20' 24.657 N
	+E/-W	49.99 usft	Easting:	721,052.95 usft	Longitude:	103° 45' 5.146 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	3,455.10 usft	Ground Level:	3,430.10 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2014	1/8/2015	7.41	60.17	48,262

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	176.44

Plan Sections										
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	
9,772.04	0.00	0.00	9,772.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,672.04	90.00	176.44	10,345.00	-571.85	35.54	10.00	10.00	0.00	176.44	
14,848.28	90.00	176.44	10,345.00	-4,740.05	294.62	0.00	0.00	0.00	0.00	PBHL (B2S 6H)



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	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 (B2S 6H)									
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
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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
623.00	0.00	0.00	623.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
899.00	0.00	0.00	899.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
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
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
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
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,166.00	0.00	0.00	4,166.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
4,373.00	0.00	0.00	4,373.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar									
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	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)
4,428.00	0.00	0.00	4,428.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,284.00	0.00	0.00	5,284.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon									
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,516.00	0.00	0.00	6,516.00	0.00	0.00	0.00	0.00	0.00	0.00
Brushy Canyon									
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,232.00	0.00	0.00	8,232.00	0.00	0.00	0.00	0.00	0.00	0.00
Bone Spring									
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	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)
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,287.00	0.00	0.00	9,287.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,772.04	0.00	0.00	9,772.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10" DLS									
9,800.00	2.80	176.44	9,799.99	-0.68	0.04	0.68	10.00	10.00	0.00
9,850.00	7.80	176.44	9,849.76	-5.29	0.33	5.30	10.00	10.00	0.00
9,900.00	12.80	176.44	9,898.94	-14.20	0.88	14.23	10.00	10.00	0.00
9,950.00	17.80	176.44	9,947.15	-27.36	1.70	27.41	10.00	10.00	0.00
10,000.00	22.80	176.44	9,994.03	-44.67	2.78	44.75	10.00	10.00	0.00
10,042.99	27.09	176.44	10,033.00	-62.76	3.90	62.88	10.00	10.00	0.00
2nd BS SS									
10,050.00	27.80	176.44	10,039.22	-65.98	4.10	66.11	10.00	10.00	0.00
10,100.00	32.80	176.44	10,082.38	-91.15	5.67	91.33	10.00	10.00	0.00
10,150.00	37.80	176.44	10,123.18	-119.97	7.46	120.21	10.00	10.00	0.00
10,200.00	42.80	176.44	10,161.30	-152.24	9.46	152.53	10.00	10.00	0.00
10,250.00	47.80	176.44	10,196.46	-187.70	11.67	188.06	10.00	10.00	0.00
10,300.00	52.80	176.44	10,228.39	-226.08	14.05	226.51	10.00	10.00	0.00
10,350.00	57.80	176.44	10,256.85	-267.09	16.60	267.61	10.00	10.00	0.00
10,400.00	62.80	176.44	10,281.62	-310.42	19.29	311.02	10.00	10.00	0.00
10,450.00	67.80	176.44	10,302.51	-355.75	22.11	356.43	10.00	10.00	0.00
10,500.00	72.80	176.44	10,319.36	-402.71	25.03	403.49	10.00	10.00	0.00
10,550.00	77.80	176.44	10,332.05	-450.97	28.03	451.84	10.00	10.00	0.00
10,600.00	82.80	176.44	10,340.48	-500.14	31.09	501.11	10.00	10.00	0.00
10,650.00	87.80	176.44	10,344.58	-549.86	34.18	550.92	10.00	10.00	0.00
10,672.04	90.00	176.44	10,345.00	-571.85	35.54	572.96	10.00	10.00	0.00
LP									
10,700.00	90.00	176.44	10,345.00	-599.76	37.28	600.92	0.00	0.00	0.00
10,800.00	90.00	176.44	10,345.00	-699.57	43.48	700.92	0.00	0.00	0.00
10,900.00	90.00	176.44	10,345.00	-799.37	49.69	800.92	0.00	0.00	0.00
11,000.00	90.00	176.44	10,345.00	-899.18	55.89	900.92	0.00	0.00	0.00
11,100.00	90.00	176.44	10,345.00	-998.99	62.09	1,000.92	0.00	0.00	0.00
11,200.00	90.00	176.44	10,345.00	-1,098.80	68.30	1,100.92	0.00	0.00	0.00
11,300.00	90.00	176.44	10,345.00	-1,198.60	74.50	1,200.92	0.00	0.00	0.00
11,400.00	90.00	176.44	10,345.00	-1,298.41	80.70	1,300.92	0.00	0.00	0.00
11,500.00	90.00	176.44	10,345.00	-1,398.22	86.91	1,400.92	0.00	0.00	0.00
11,600.00	90.00	176.44	10,345.00	-1,498.02	93.11	1,500.92	0.00	0.00	0.00
11,700.00	90.00	176.44	10,345.00	-1,597.83	99.31	1,600.92	0.00	0.00	0.00
11,800.00	90.00	176.44	10,345.00	-1,697.64	105.52	1,700.92	0.00	0.00	0.00
11,900.00	90.00	176.44	10,345.00	-1,797.45	111.72	1,800.92	0.00	0.00	0.00
12,000.00	90.00	176.44	10,345.00	-1,897.25	117.92	1,900.92	0.00	0.00	0.00
12,100.00	90.00	176.44	10,345.00	-1,997.06	124.13	2,000.92	0.00	0.00	0.00
12,200.00	90.00	176.44	10,345.00	-2,096.87	130.33	2,100.92	0.00	0.00	0.00
12,300.00	90.00	176.44	10,345.00	-2,196.68	136.54	2,200.92	0.00	0.00	0.00
12,400.00	90.00	176.44	10,345.00	-2,296.48	142.74	2,300.92	0.00	0.00	0.00
12,500.00	90.00	176.44	10,345.00	-2,396.29	148.94	2,400.92	0.00	0.00	0.00



LEAM Drilling Systems LLC Planning Report



Database:	EDM:5000.1 Single User Db	Local Co-ordinate Reference:	Well 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	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)	
12,600.00	90.00	176.44	10,345.00	-2,496.10	155.15	2,500.92	0.00	0.00	0.00	
12,700.00	90.00	176.44	10,345.00	-2,595.91	161.35	2,600.92	0.00	0.00	0.00	
12,800.00	90.00	176.44	10,345.00	-2,695.71	167.55	2,700.92	0.00	0.00	0.00	
12,900.00	90.00	176.44	10,345.00	-2,795.52	173.76	2,800.92	0.00	0.00	0.00	
13,000.00	90.00	176.44	10,345.00	-2,895.33	179.96	2,900.92	0.00	0.00	0.00	
13,100.00	90.00	176.44	10,345.00	-2,995.14	186.16	3,000.92	0.00	0.00	0.00	
13,200.00	90.00	176.44	10,345.00	-3,094.94	192.37	3,100.92	0.00	0.00	0.00	
13,300.00	90.00	176.44	10,345.00	-3,194.75	198.57	3,200.92	0.00	0.00	0.00	
13,400.00	90.00	176.44	10,345.00	-3,294.56	204.77	3,300.92	0.00	0.00	0.00	
13,500.00	90.00	176.44	10,345.00	-3,394.37	210.98	3,400.92	0.00	0.00	0.00	
13,600.00	90.00	176.44	10,345.00	-3,494.17	217.18	3,500.92	0.00	0.00	0.00	
13,700.00	90.00	176.44	10,345.00	-3,593.98	223.39	3,600.92	0.00	0.00	0.00	
13,800.00	90.00	176.44	10,345.00	-3,693.79	229.59	3,700.92	0.00	0.00	0.00	
13,900.00	90.00	176.44	10,345.00	-3,793.59	235.79	3,800.92	0.00	0.00	0.00	
14,000.00	90.00	176.44	10,345.00	-3,893.40	242.00	3,900.92	0.00	0.00	0.00	
14,100.00	90.00	176.44	10,345.00	-3,993.21	248.20	4,000.92	0.00	0.00	0.00	
14,200.00	90.00	176.44	10,345.00	-4,093.02	254.40	4,100.92	0.00	0.00	0.00	
14,300.00	90.00	176.44	10,345.00	-4,192.82	260.61	4,200.92	0.00	0.00	0.00	
14,400.00	90.00	176.44	10,345.00	-4,292.63	266.81	4,300.92	0.00	0.00	0.00	
14,500.00	90.00	176.44	10,345.00	-4,392.44	273.01	4,400.92	0.00	0.00	0.00	
14,600.00	90.00	176.44	10,345.00	-4,492.25	279.22	4,500.92	0.00	0.00	0.00	
14,700.00	90.00	176.44	10,345.00	-4,592.05	285.42	4,600.92	0.00	0.00	0.00	
14,800.00	90.00	176.44	10,345.00	-4,691.86	291.62	4,700.92	0.00	0.00	0.00	
14,848.28	90.00	176.44	10,345.00	-4,740.05	294.62	4,749.20	0.00	0.00	0.00	
TD - PBHL (B2S 6H)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (B2S 6H)	0.00	0.00	0.00	0.00	0.00	487,978.62	721,052.95	32° 20' 24.657 N	103° 45' 5.146 W
- plan hits target center									
- Point									
PBHL (B2S 6H)	0.00	0.00	10,345.00	-4,740.05	294.62	483,238.57	721,347.57	32° 19' 37.737 N	103° 45' 2.012 W
- plan hits target center									
- Point									



LEAM Drilling Systems LLC
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well: 6H
Company:	DEVON ENERGY	TVD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Project:	Eddy County, NM (NAD-83)	MD Reference:	3430.1' GL + 25' RKB @ 3455.10usft
Site:	Belloq 2 State	North Reference:	Grid
Well:	6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
623.00	623.00	Rustler		0.00		
899.00	899.00	Top Salt		0.00		
4,186.00	4,186.00	Base Salt		0.00		
4,373.00	4,373.00	Lamar		0.00		
4,428.00	4,428.00	Bell Canyon		0.00		
5,284.00	5,284.00	Cherry Canyon		0.00		
6,516.00	6,516.00	Brushy Canyon		0.00		
8,232.00	8,232.00	Bone Spring		0.00		
9,287.00	9,287.00	1st BS SS		0.00		
10,042.99	10,033.00	2nd BS SS		0.00		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
9,772.04	9,772.04	0.00	0.00	KOP 10° DLS
10,672.04	10,345.00	-571.85	35.54	LP
14,848.28	10,345.00	-4,740.05	294.62	TD