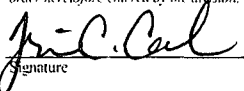
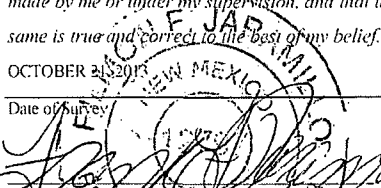
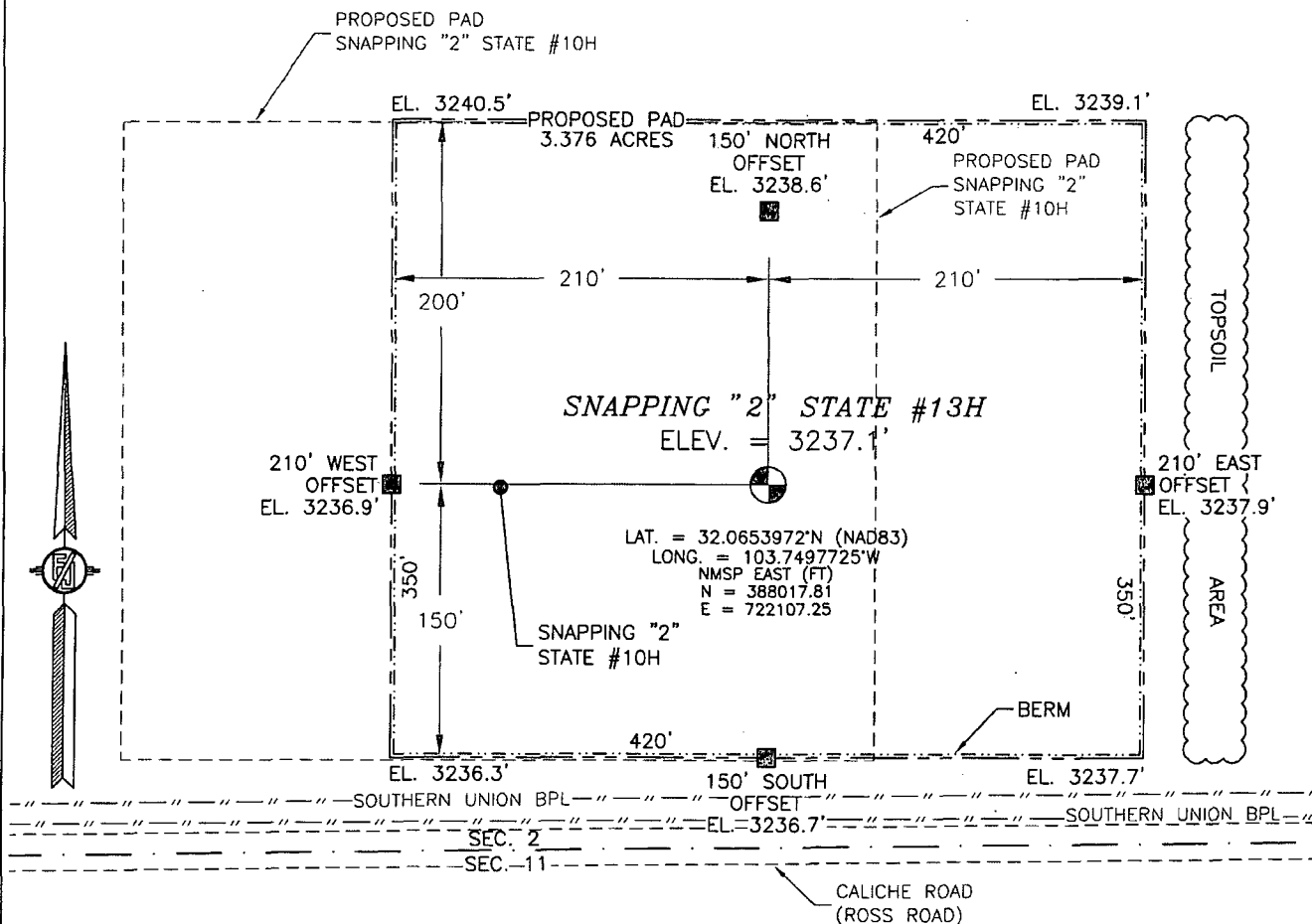


N89°33'55"E 2661.22 FT	N89°32'50"E 2662.17 FT	SURVEYOR CERTIFICATION
1980' 330' NW CORNER SEC. 2 LAT. = 32.0794668°N LONG. = 103.7574356°W NMSP EAST (FT) N = 393123.30 E = 719706.10	IN Q CORNER SEC. 2 LAT. = 32.0794837°N LONG. = 103.7488454°W NMSP EAST (FT) N = 393143.74 E = 72366.68 BOTTOM OF HOLE BOTTOM OF HOLE LAT. = 32.0785725°N LONG. = 103.7510449°W NMSP EAST (FT) N = 392808.58 E = 721687.23	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 released 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.  2/26/14 Signature Date Trina C. Couch, Regulatory Analyst Printed Name trina.couch@divn.com E-mail Address
W Q CORNER SEC. 2 LAT. = 32.0721403°N LONG. = 103.7574402°W NMSP EAST (FT) N = 390458.06 E = 719718.90	E O CORNER SEC. 2 LAT. = 32.0721721°N LONG. = 103.7402701°W NMSP EAST (FT) N = 390498.43 E = 725037.32	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. OCTOBER 21, 2014 Date of Survey  Signature and Seal of Professional Surveyor Certificate Number: FIDMONT-P. JARAMILLO, PLS 12797 SURVEY NO. 2384
SW CORNER SEC. 2 LAT. = 32.0648111°N LONG. = 103.7574377°W NMSP EAST (FT) N = 387791.85 E = 719733.91	SNAPPING "2" STATE #13H ELEV. = 3237.1' LAT. = 32.0653972°N (NAD83) LONG. = 103.7497725°W NMSP EAST (FT) N = 388017.81 E = 722107.25 SE CORNER SEC. 2 LAT. = 32.0648918°N LONG. = 103.7402835°W NMSP EAST (FT) N = 387849.96 E = 725047.73	DATE OF SURVEY DATE OF SURVEY
2375' 002' SURFACE LOCATION	2662.17 FT	DATE OF SURVEY
S89°22'24"W 2657.63 FT	S89°22'24"W 2657.63 FT	

SECTION 2, TOWNSHIP 26 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 STATE HIGHWAY 128 AND PAVED CR 1 (ORLA ROAD) GO SOUTH ON CR 1 10.2 MILES, TURN RIGHT ON CALICHE ROAD (ROSS ROAD) AND GO WEST 4.35 MILES AND LOCATION IS ON THE RIGHT (NORTH) 200'.

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE #13H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 2375 FT. FROM THE WEST LINE OF

SECTION 2, TOWNSHIP 26 SOUTH,

RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

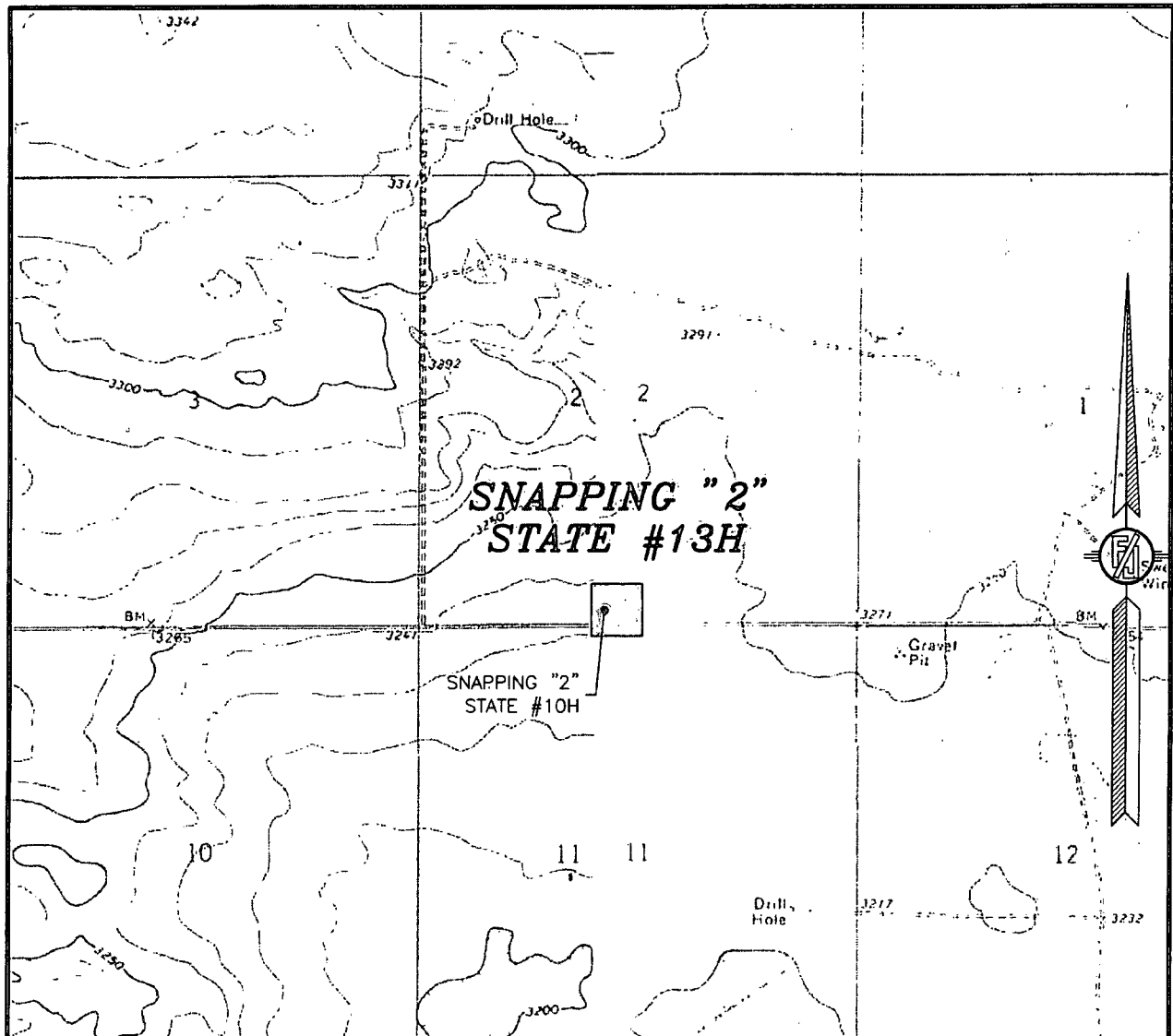
OCTOBER 21, 2013

SURVEY NO. 2384

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

CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
PADUCA BREAKS WEST

NOT TO SCALE

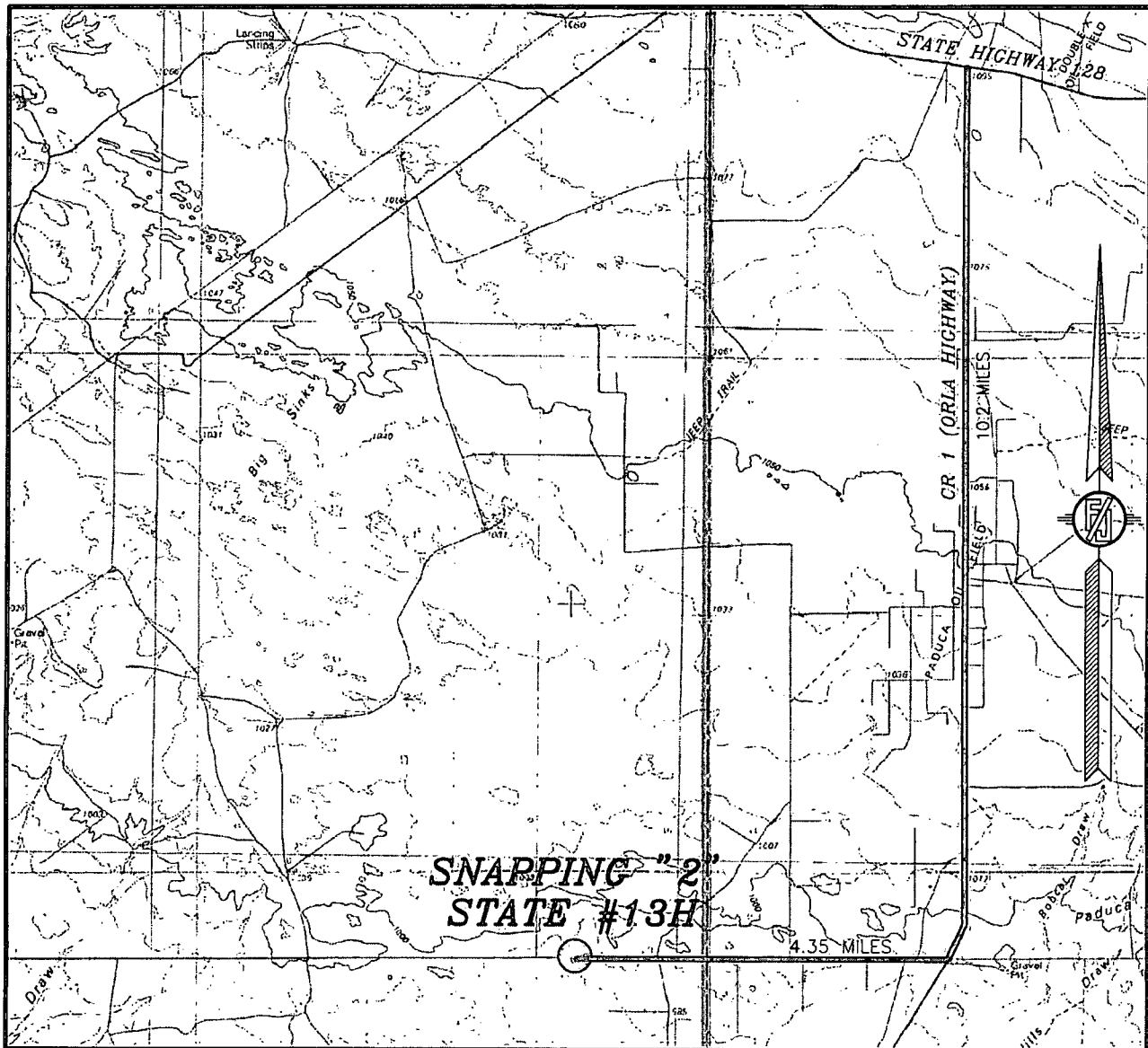
DEVON ENERGY PRODUCTION COMPANY, L.P.
SNAPPING "2" STATE #13H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 2375 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 21, 2013

SURVEY NO. 2384

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

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE #13H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 2375 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

FROM STATE HIGHWAY 128 AND PAVED CR 1 (ORLA ROAD) GO SOUTH
ON CR 1 10.2 MILES, TURN RIGHT ON CALICHE ROAD (ROSS ROAD)
AND GO WEST 4.35 MILES AND LOCATION IS ON THE RIGHT (NORTH)
200'.

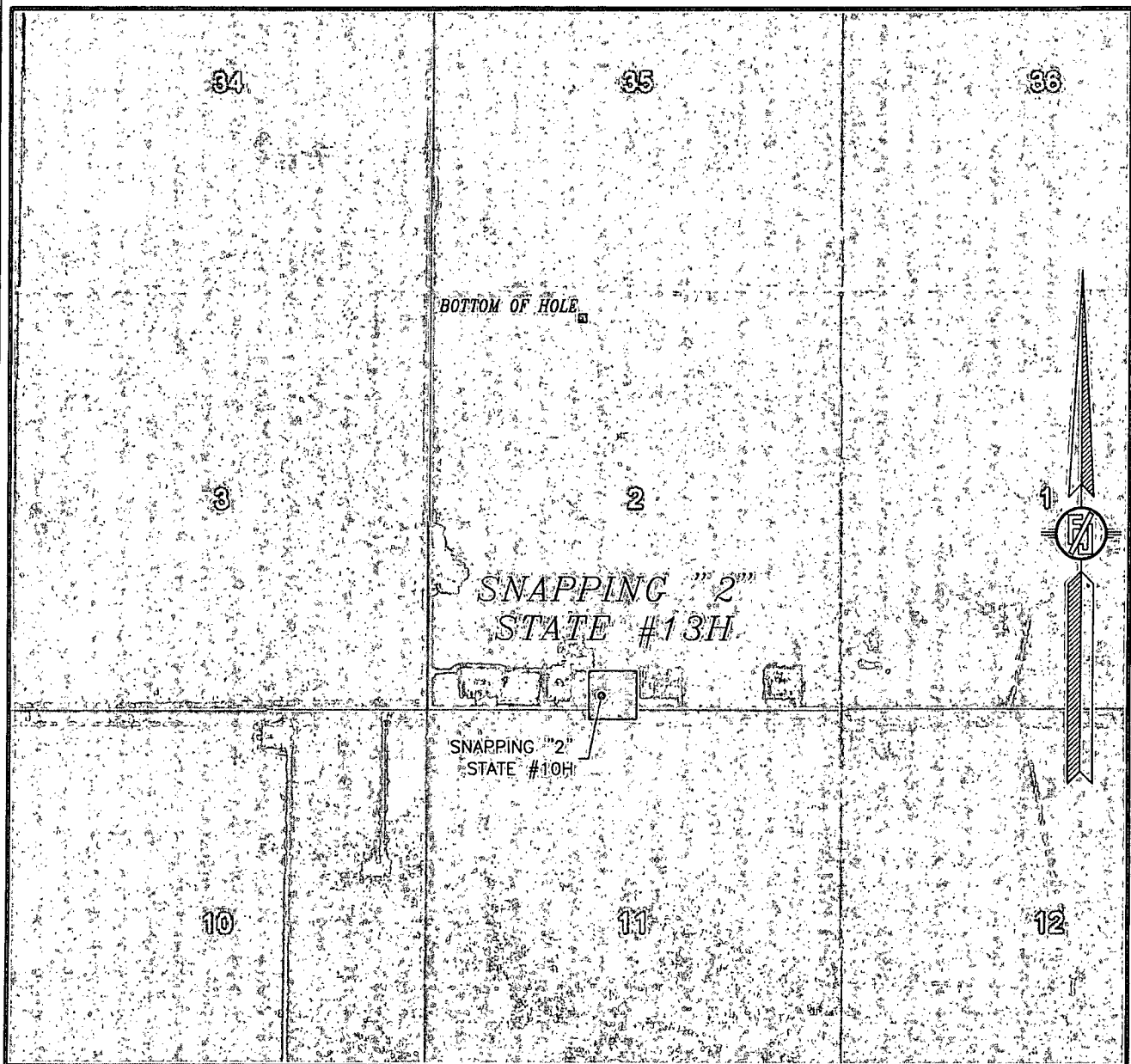
OCTOBER 21, 2013

SURVEY NO. 2384

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

CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APRIL 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE #13H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 2375 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 21, 2013

SURVEY NO. 2384

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



1. Casing Program:

Hole Size	Hole Interval	Casing OD	Casing Interval	Weight	Collar	Grade
17-1/2"	0 – 1,000'	13-3/8"	0 – 1,000'	48#	STC	H-40
12-1/4"	1,000' - 4,050'	9-5/8"	0 - 4,050'	40#	BTC	J-55
8-3/4"	4,050' – 11,500'	7"	0-11,500'	29#	BTC	P-110
6-1/8"	11,500'-16,044'	4-1/2"	10,930'-16,044'	13.5#	BTC	P-110

Maximum TVD in lateral: 11,445 ft

2. Design Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13-3/8"	1.54	3.47	11.27
9-5/8"	1.21	1.86	3.21
7"	1.71	2.08	2.89
4-1/2"	1.79	2.09	2.87

3. Cement Program:

Cementing Program (cement volumes based on at least 25% excess)

String	Number of sx	Weight lbs/gal	Water Volume g/sx	Yield cf/sx	Stage; Lead/Tail	Slurry Description
13-3/8" Surface	930	14.8	6.32	1.35	Tail	Class C Cement + 63.5% Fresh Water
9-5/8" Intermediate #1	650	12.6	9.81	1.73	Lead	(60:40) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	860	13.8	6.32	1.38	Tail	(60:40) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
9-5/8" Intermediate #1 Two Stage Option	790	12.6	9.81	1.73	Lead	(60:40) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.9 % Fresh Water
	250	13.8	6.32	1.38	Tail	Class C Cement + 63.5% Fresh Water
	DV Tool at 1150ft					
	530	14.8	6.32	1.33	Tail	Class C Cement + 63.5% Fresh Water

Drilling Program
Snapping 2 State 13H
SRY 2.20.14

7" Intermediate #2	470	11.0	14.94	2.66	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	120	14.4	5.69	1.25	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.3% bwoc HALAD-9 + 0.2% bwoc HR-800 + 1lb/sk KolSeal + 2% bwoc Bentonite + 62.3 % Fresh Water
	DV Tool @ 4150ft					
	350	11.0	14.94	2.66	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	80	14.8	6.32	1.33	Tail	Class C Cement + 0.2% HR-800 + 63.5% Fresh Water
7" Intermediate #2 Single Stage Option	870	11.0	14.94	2.66	Lead	Tuned Light Blend + 0.125 lb/sk Pol-E-Flake + 76.3% Fresh Water
	205	14.4	5.69	1.25	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.3% bwoc HALAD-9 + 0.2% bwoc HR-800 + 1lb/sk KolSeal + 2% bwoc Bentonite + 62.3 % Fresh Water
4-1/2" Production Liner	470	14.5	5.32	1.21	Tail	(50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.25% bwoc CFR-3 + 0.2% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water

TOC for all Strings:

13-3/8" Surface	0ft
9-5/8" Intermediate	0ft
9-5/8" Two Stage Option	Stage #1 = 1150ft Stage #2 = 0ft
7" Intermediate Two Stage Option	Stage #1 = 4150ft Stage #2 = 0ft
7" Intermediate Single Stage Option	0ft
4-1/2" Production Liner	10930ft
	- 570' tie back into casing

Notes:

- Cement volumes Surface 100%, Intermediate #1 75% , Intermediate #2 50% and Production Liner based on at least 25% excess
- Actual cement volumes will be adjusted based on fluid caliper and caliper log data
- If lost circulation is encountered while drilling the production and/or the intermediate wellbores, a DV tool will be installed a minimum of 50' below the previous casing shoe and a minimum of 200' above the current shoe. If the DV tool has to be moved, the cement volumes will be adjusted proportionately. Both single and double stage proposals are listed in the cement table.

4. Pressure Control Equipment

The BOP system used to drill the 17-1/2" hole will consist of a 20" 2M Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a 2M system prior to drilling out the casing shoe.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the surface casing shoe. The BOP system used to drill the intermediate hole will be tested per BLM Onshore Oil and Gas Order 2.

A 3M 13-5/8" BOP system (Double Ram and Annular preventer) will be installed and tested prior to drilling out the intermediate casing shoe. The BOP system used to drill the production hole will be tested per BLM Onshore Oil and Gas Order 2.

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 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.

5. Proposed Mud Circulation System:

Depth Range	Mud Weight	Viscosity	Fluid Loss	Type System
0 - 1000'	8.3-9.6	30-34	N/C	FW
1000' - 4,050'	10-10.2	28-32	N/C	Brine
4,050' - 11,500'	8.4-9.0	28-32	N/C	FW
11,500' - 16,044'	9 -10	28-32	N/C	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times.

6. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the 13-3/8" casing shoe until the 4-1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13-3/8" shoe until total depth is reached.

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Snapping
Well: 2 State 13H
Wellbore: OH
Design: Plan #1 Draft 1



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.13°

Magnetic Field
Strength: 48213.1snT
Dip Angle: 59.93°
Date: 02/18/2014
Model: BGGM2013

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



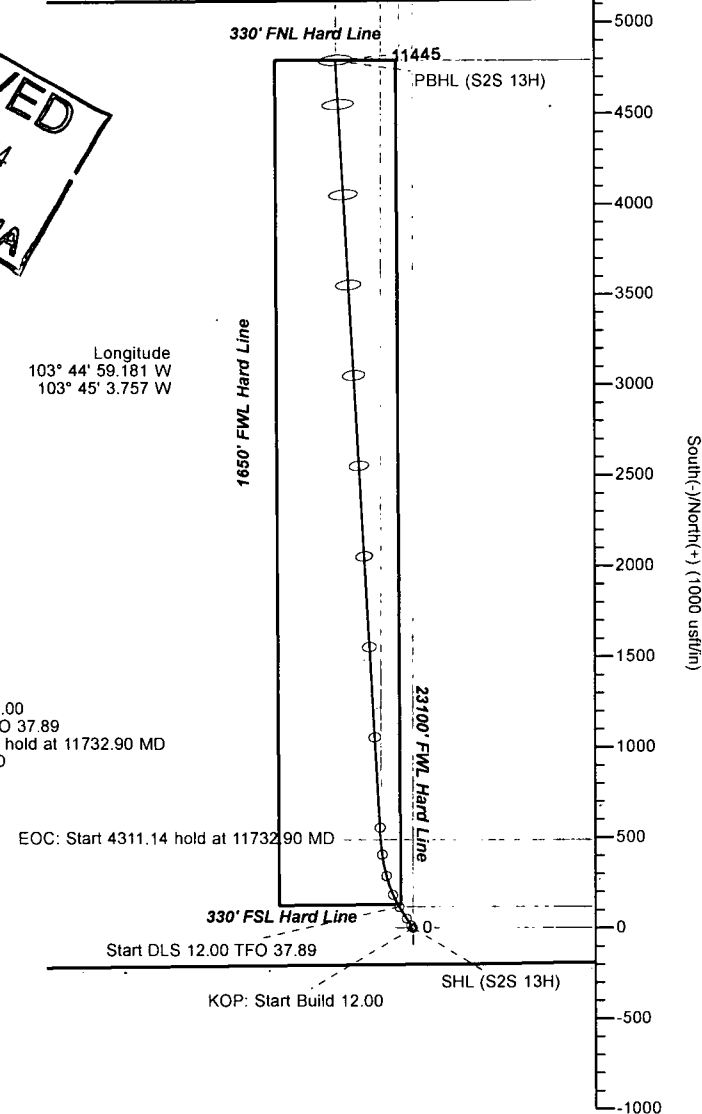
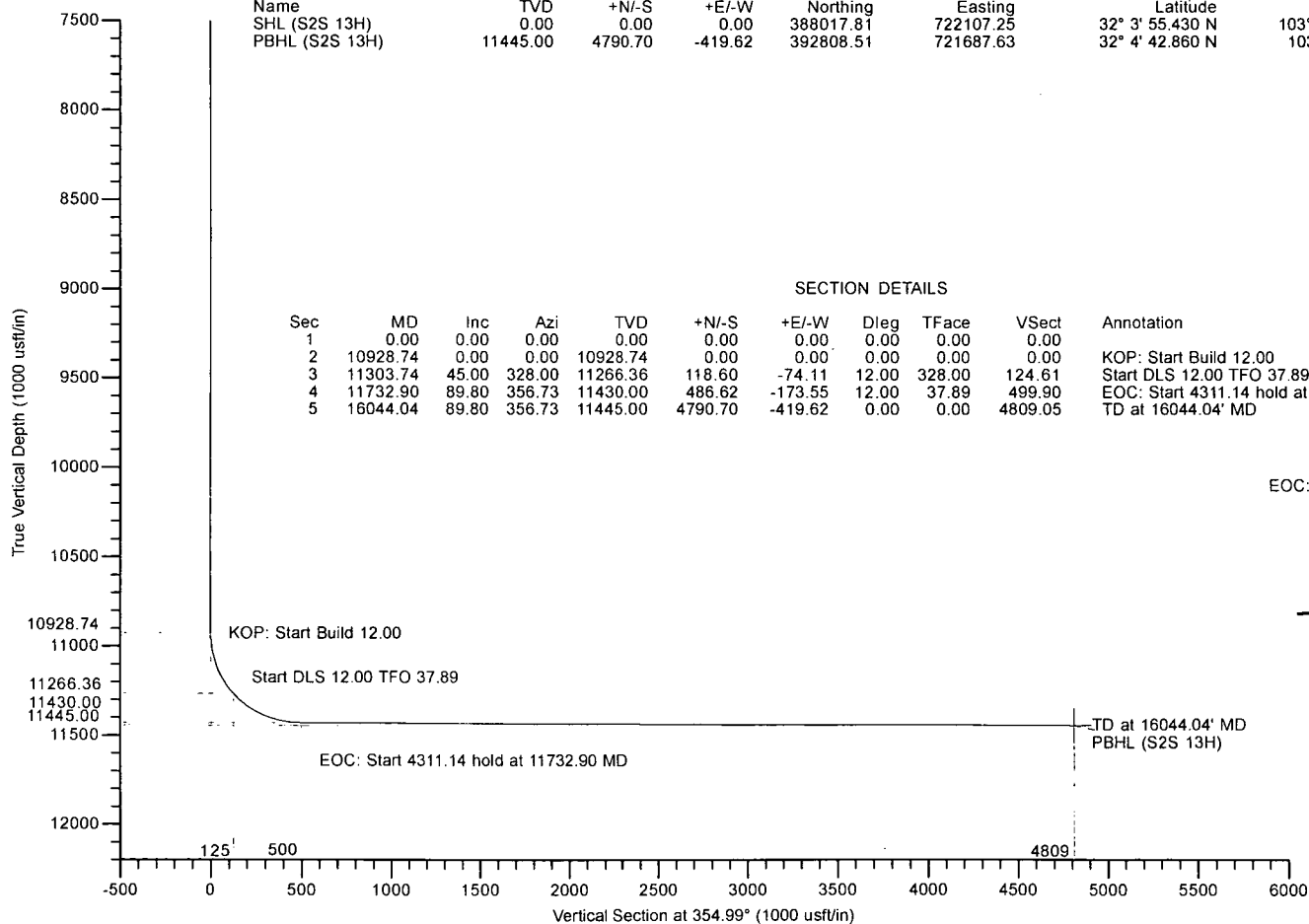
West(-)/East(+) (1000 usft/in)
-2000 -1500 -1000 -500 0 500 1000
Section Lines

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (S2S 13H)	0.00	0.00	0.00	388017.81	722107.25	32° 3' 55.430 N	103° 44' 59.181 W
PBHL (S2S 13H)	11445.00	4790.70	-419.62	392808.51	721687.63	32° 4' 42.860 N	103° 45' 3.757 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	10928.74	0.00	0.00	10928.74	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 12.00
3	11303.74	45.00	328.00	11266.36	118.60	-74.11	12.00	328.00	124.61	Start DLS 12.00 TFO 37.89
4	11732.90	89.80	356.73	11430.00	486.62	-173.55	12.00	37.89	499.90	EOC: Start 4311.14 hold at 11732.90 MD
5	16044.04	89.80	356.73	11445.00	4790.70	-419.62	0.00	0.00	4809.05	TD at 16044.04' MD



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

Plan: Plan #1 Draft 1 (2 State 13H/OH)
Snapping
Created By: Heber Claros Date: 14/23, February 18 2014
Date: _____
Approved: _____ Date: _____

DEVON ENERGY

Eddy County, NM (NAD-83)

Snapping

2 State 13H

OH

Plan: Plan #1 Draft 1

Standard Planning Report

18 February, 2014

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2 State 13H
Company:	DEVON ENERGY	TVD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Site:	Snapping	North Reference:	Grid
Well:	2 State 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 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	Snapping		
Site Position:		Northing:	382,635.86 usft
From:	Map	Easting:	716,691.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 2.457 N
		Longitude:	103° 46' 2.442 W
		Grid Convergence:	0.30 °

Well	2 State 13H		
Well Position	+N/-S	5,381.95 usft	Northing:
	+E/-W	5,415.45 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 3' 55.430 N
		Longitude:	103° 44' 59.181 W
		Ground Level:	3,237.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2013	02/18/14	7.44
			Dip Angle
			(°)
			59.93
			Field Strength
			(nT)
			48,213

Design	Plan #1 Draft 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			354.99

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,928.74	0.00	0.00	10,928.74	0.00	0.00	0.00	0.00	0.00	0.00	
11,303.74	45.00	328.00	11,266.36	118.60	-74.11	12.00	12.00	0.00	328.00	
11,732.90	89.80	356.73	11,430.00	486.62	-173.55	12.00	10.44	6.69	37.89	
16,044.04	89.80	356.73	11,445.00	4,790.70	-419.62	0.00	0.00	0.00	0.00	PBHL (S2S 13H)

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2 State 13H
Company:	DEVON ENERGY	TVD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Site:	Snapping	North Reference:	Grid
Well:	2 State 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 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)
10,928.74	0.00	0.00	10,928.74	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 12.00									
10,950.00	2.55	328.00	10,949.99	0.40	-0.25	0.42	12.00	12.00	0.00
10,975.00	5.55	328.00	10,974.93	1.90	-1.19	2.00	12.00	12.00	0.00
11,000.00	8.55	328.00	10,999.74	4.50	-2.81	4.73	12.00	12.00	0.00
11,025.00	11.55	328.00	11,024.35	8.20	-5.12	8.62	12.00	12.00	0.00
11,050.00	14.55	328.00	11,048.70	12.99	-8.12	13.65	12.00	12.00	0.00
11,075.00	17.55	328.00	11,072.72	18.85	-11.78	19.81	12.00	12.00	0.00
11,100.00	20.55	328.00	11,096.35	25.77	-16.10	27.08	12.00	12.00	0.00
11,125.00	23.55	328.00	11,119.52	33.73	-21.08	35.44	12.00	12.00	0.00
11,150.00	26.55	328.00	11,142.17	42.70	-26.68	44.87	12.00	12.00	0.00
11,175.00	29.55	328.00	11,164.23	52.67	-32.91	55.34	12.00	12.00	0.00
11,200.00	32.55	328.00	11,185.64	63.61	-39.75	66.83	12.00	12.00	0.00
11,225.00	35.55	328.00	11,206.35	75.48	-47.16	79.30	12.00	12.00	0.00
11,250.00	38.55	328.00	11,226.30	88.25	-55.14	92.73	12.00	12.00	0.00
11,275.00	41.55	328.00	11,245.44	101.89	-63.67	107.06	12.00	12.00	0.00
11,300.00	44.55	328.00	11,263.70	116.36	-72.71	122.26	12.00	12.00	0.00
11,303.74	45.00	328.00	11,266.36	118.60	-74.11	124.61	12.00	12.00	0.00
Start DLS 12.00 TFO 37.89									
11,325.00	47.03	330.14	11,281.12	131.72	-81.96	138.37	12.00	9.57	10.07
11,350.00	49.47	332.48	11,297.77	148.08	-90.91	155.45	12.00	9.76	9.37
11,375.00	51.96	334.66	11,313.60	165.41	-99.52	173.46	12.00	9.93	8.70
11,400.00	54.48	336.69	11,328.57	183.65	-107.76	192.36	12.00	10.08	8.13
11,425.00	57.03	338.60	11,342.64	202.76	-115.61	212.08	12.00	10.21	7.63
11,450.00	59.61	340.40	11,355.77	222.69	-123.06	232.58	12.00	10.32	7.20
11,475.00	62.21	342.11	11,367.92	243.38	-130.07	253.80	12.00	10.41	6.83
11,500.00	64.83	343.73	11,379.07	264.76	-136.64	275.68	12.00	10.49	6.51
11,525.00	67.47	345.29	11,389.17	286.80	-142.74	298.16	12.00	10.56	6.23
11,550.00	70.13	346.79	11,398.21	309.42	-148.36	321.18	12.00	10.62	6.00
11,575.00	72.80	348.24	11,406.16	332.56	-153.48	344.68	12.00	10.67	5.80
11,600.00	75.47	349.65	11,413.00	356.15	-158.09	368.59	12.00	10.71	5.63
11,625.00	78.16	351.02	11,418.70	380.15	-162.18	392.85	12.00	10.74	5.50
11,650.00	80.85	352.37	11,423.25	404.47	-166.73	417.39	12.00	10.77	5.39
11,675.00	83.55	353.70	11,426.65	429.05	-168.73	442.14	12.00	10.79	5.31
11,700.00	86.25	355.01	11,428.87	453.83	-171.18	467.03	12.00	10.80	5.25
11,725.00	88.95	356.32	11,429.92	478.73	-173.07	492.01	12.00	10.81	5.22
11,732.90	89.80	356.73	11,430.00	486.62	-173.55	499.90	12.00	10.81	5.21
EOC: Start 4311.14 hold at 11732.90 MD									
11,800.00	89.80	356.73	11,430.24	553.61	-177.38	566.97	0.00	0.00	0.00
11,900.00	89.80	356.73	11,430.59	653.44	-183.08	666.93	0.00	0.00	0.00
12,000.00	89.80	356.73	11,430.93	753.28	-188.79	766.88	0.00	0.00	0.00
12,100.00	89.80	356.73	11,431.28	853.12	-194.50	866.83	0.00	0.00	0.00
12,200.00	89.80	356.73	11,431.63	952.95	-200.21	966.79	0.00	0.00	0.00
12,300.00	89.80	356.73	11,431.98	1,052.79	-205.92	1,066.74	0.00	0.00	0.00
12,400.00	89.80	356.73	11,432.33	1,152.63	-211.62	1,166.69	0.00	0.00	0.00
12,500.00	89.80	356.73	11,432.67	1,252.46	-217.33	1,266.65	0.00	0.00	0.00
12,600.00	89.80	356.73	11,433.02	1,352.30	-223.04	1,366.60	0.00	0.00	0.00
12,700.00	89.80	356.73	11,433.37	1,452.14	-228.75	1,466.56	0.00	0.00	0.00
12,800.00	89.80	356.73	11,433.72	1,551.97	-234.45	1,566.51	0.00	0.00	0.00
12,900.00	89.80	356.73	11,434.06	1,651.81	-240.16	1,666.46	0.00	0.00	0.00
13,000.00	89.80	356.73	11,434.41	1,751.64	-245.87	1,766.42	0.00	0.00	0.00
13,100.00	89.80	356.73	11,434.76	1,851.48	-251.58	1,866.37	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2 State 13H
Company:	DEVON ENERGY	TVD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Site:	Snapping	North Reference:	Grid
Well:	2 State 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 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)	
13,200.00	89.80	356.73	11,435.11	1,951.32	-257.28	1,966.32	0.00	0.00	0.00	
13,300.00	89.80	356.73	11,435.46	2,051.15	-262.99	2,066.28	0.00	0.00	0.00	
13,400.00	89.80	356.73	11,435.80	2,150.99	-268.70	2,166.23	0.00	0.00	0.00	
13,500.00	89.80	356.73	11,436.15	2,250.83	-274.41	2,266.18	0.00	0.00	0.00	
13,600.00	89.80	356.73	11,436.50	2,350.66	-280.12	2,366.14	0.00	0.00	0.00	
13,700.00	89.80	356.73	11,436.85	2,450.50	-285.82	2,466.09	0.00	0.00	0.00	
13,800.00	89.80	356.73	11,437.19	2,550.34	-291.53	2,566.05	0.00	0.00	0.00	
13,900.00	89.80	356.73	11,437.54	2,650.17	-297.24	2,666.00	0.00	0.00	0.00	
14,000.00	89.80	356.73	11,437.89	2,750.01	-302.95	2,765.95	0.00	0.00	0.00	
14,100.00	89.80	356.73	11,438.24	2,849.84	-308.65	2,865.91	0.00	0.00	0.00	
14,200.00	89.80	356.73	11,438.59	2,949.68	-314.36	2,965.86	0.00	0.00	0.00	
14,300.00	89.80	356.73	11,438.93	3,049.52	-320.07	3,065.81	0.00	0.00	0.00	
14,400.00	89.80	356.73	11,439.28	3,149.35	-325.78	3,165.77	0.00	0.00	0.00	
14,500.00	89.80	356.73	11,439.63	3,249.19	-331.49	3,265.72	0.00	0.00	0.00	
14,600.00	89.80	356.73	11,439.98	3,349.03	-337.19	3,365.67	0.00	0.00	0.00	
14,700.00	89.80	356.73	11,440.33	3,448.86	-342.90	3,465.63	0.00	0.00	0.00	
14,800.00	89.80	356.73	11,440.67	3,548.70	-348.61	3,565.58	0.00	0.00	0.00	
14,900.00	89.80	356.73	11,441.02	3,648.54	-354.32	3,665.54	0.00	0.00	0.00	
15,000.00	89.80	356.73	11,441.37	3,748.37	-360.02	3,765.49	0.00	0.00	0.00	
15,100.00	89.80	356.73	11,441.72	3,848.21	-365.73	3,865.44	0.00	0.00	0.00	
15,200.00	89.80	356.73	11,442.06	3,948.04	-371.44	3,965.40	0.00	0.00	0.00	
15,300.00	89.80	356.73	11,442.41	4,047.88	-377.15	4,065.35	0.00	0.00	0.00	
15,400.00	89.80	356.73	11,442.76	4,147.72	-382.86	4,165.30	0.00	0.00	0.00	
15,500.00	89.80	356.73	11,443.11	4,247.55	-388.56	4,265.26	0.00	0.00	0.00	
15,600.00	89.80	356.73	11,443.46	4,347.39	-394.27	4,365.21	0.00	0.00	0.00	
15,700.00	89.80	356.73	11,443.80	4,447.23	-399.98	4,465.16	0.00	0.00	0.00	
15,800.00	89.80	356.73	11,444.15	4,547.06	-405.69	4,565.12	0.00	0.00	0.00	
15,900.00	89.80	356.73	11,444.50	4,646.90	-411.39	4,665.07	0.00	0.00	0.00	
16,000.00	89.80	356.73	11,444.85	4,746.74	-417.10	4,765.03	0.00	0.00	0.00	
16,044.04	89.80	356.73	11,445.00	4,790.70	-419.62	4,809.05	0.00	0.00	0.00	
TD at 16044.04' MD - PBHL (S2S 13H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
SHL (S2S 13H)	0.00	0.00	0.00	0.00	0.00	388,017.81	722,107.25	32° 3' 55.430 N	103° 44' 59.181 W	
- plan misses target center by 10928.74usft at 10928.74usft MD (10928.74 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL (S2S 13H)	0.00	0.00	11,445.00	4,790.70	-419.62	392,808.51	721,687.63	32° 4' 42.860 N	103° 45' 3.757 W	
- plan hits target center										
- Point										

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 2 State 13H
Company:	DEVON ENERGY	TVD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3271' + KB 28' @ 3265.00usft (Cactus 105)
Site:	Snapping	North Reference:	Grid
Well:	2 State 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,928.74	10,928.74	0.00	0.00	KOP: Start Build 12.00
11,303.74	11,266.36	118.60	-74.11	Start DLS 12.00 TFO 37.89
11,732.90	11,430.00	486.62	-173.55	EOC: Start 4311.14 hold at 11732.90 MD
16,044.04	11,445.00	4,790.70	-419.62	TD at 16044.04' MD

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	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
	300.00	0.00	0.00	300.00	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
	500.00	0.00	0.00	500.00	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
	700.00	0.00	0.00	700.00	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
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00
	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00
	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00
	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00
	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00
	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00
	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00
	2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00
	2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00
	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
	2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00
	2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00
	2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00
	2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00
	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00
	3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00
	3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00
	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00
	3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00
	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00
	3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00
	3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00
	3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00
	3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00
	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00
	4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00
	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00
	4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00
	4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00
	4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00

[illegible]

9300.00	0.00	0.00	9300.00	0.00	0.00	0.00	0.00	0.00	0.00
9400.00	0.00	0.00	9400.00	0.00	0.00	0.00	0.00	0.00	0.00
9500.00	0.00	0.00	9500.00	0.00	0.00	0.00	0.00	0.00	0.00
9600.00	0.00	0.00	9600.00	0.00	0.00	0.00	0.00	0.00	0.00
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	0.00	0.00
9800.00	0.00	0.00	9800.00	0.00	0.00	0.00	0.00	0.00	0.00
9900.00	0.00	0.00	9900.00	0.00	0.00	0.00	0.00	0.00	0.00
10000.00	0.00	0.00	10000.00	0.00	0.00	0.00	0.00	0.00	0.00
10100.00	0.00	0.00	10100.00	0.00	0.00	0.00	0.00	0.00	0.00
10200.00	0.00	0.00	10200.00	0.00	0.00	0.00	0.00	0.00	0.00
10300.00	0.00	0.00	10300.00	0.00	0.00	0.00	0.00	0.00	0.00
10400.00	0.00	0.00	10400.00	0.00	0.00	0.00	0.00	0.00	0.00
10500.00	0.00	0.00	10500.00	0.00	0.00	0.00	0.00	0.00	0.00
10600.00	0.00	0.00	10600.00	0.00	0.00	0.00	0.00	0.00	0.00
10700.00	0.00	0.00	10700.00	0.00	0.00	0.00	0.00	0.00	0.00
10800.00	0.00	0.00	10800.00	0.00	0.00	0.00	0.00	0.00	0.00
10900.00	0.00	0.00	10900.00	0.00	0.00	0.00	0.00	0.00	0.00
10928.74	0.00	0.00	10928.74	0.00	0.00	0.00	0.00	0.00	0.00
10950.00	2.55	328.00	10949.99	0.40	-0.25	12.00	12.00	0.00	0.42
10975.00	5.55	328.00	10974.93	1.90	-1.19	12.00	12.00	0.00	2.00
11000.00	8.55	328.00	10999.74	4.50	-2.81	12.00	12.00	0.00	4.73
11025.00	11.55	328.00	11024.35	8.20	-5.12	12.00	12.00	0.00	8.62
11050.00	14.55	328.00	11048.70	12.99	-8.12	12.00	12.00	0.00	13.65
11075.00	17.55	328.00	11072.72	18.85	-11.78	12.00	12.00	0.00	19.81
11100.00	20.55	328.00	11096.35	25.77	-16.10	12.00	12.00	0.00	27.08
11125.00	23.55	328.00	11119.52	33.73	-21.08	12.00	12.00	0.00	35.44
11150.00	26.55	328.00	11142.17	42.70	-26.68	12.00	12.00	0.00	44.87
11175.00	29.55	328.00	11164.23	52.67	-32.91	12.00	12.00	0.00	55.34
11200.00	32.55	328.00	11185.64	63.61	-39.75	12.00	12.00	0.00	66.83
11225.00	35.55	328.00	11206.35	75.48	-47.16	12.00	12.00	0.00	79.30
11250.00	38.55	328.00	11226.30	88.25	-55.14	12.00	12.00	0.00	92.73
11275.00	41.55	328.00	11245.44	101.89	-63.67	12.00	12.00	0.00	107.06
11300.00	44.55	328.00	11263.70	116.36	-72.71	12.00	12.00	0.00	122.26
11303.74	45.00	328.00	11266.36	118.60	-74.11	12.00	12.00	0.00	124.61
11325.00	47.03	330.14	11281.12	131.72	-81.96	12.00	9.57	10.07	138.37
11350.00	49.47	332.48	11297.77	148.08	-90.91	12.00	9.76	9.37	155.45
11375.00	51.96	334.66	11313.60	165.41	-99.52	12.00	9.93	8.70	173.46
11400.00	54.48	336.69	11328.57	183.65	-107.76	12.00	10.08	8.13	192.36
11425.00	57.03	338.60	11342.64	202.76	-115.61	12.00	10.21	7.63	212.08
11450.00	59.61	340.40	11355.77	222.69	-123.06	12.00	10.32	7.20	232.58
11475.00	62.21	342.11	11367.92	243.38	-130.07	12.00	10.41	6.83	253.80
11500.00	64.83	343.73	11379.07	264.76	-136.64	12.00	10.49	6.51	275.68
11525.00	67.47	345.29	11389.17	286.80	-142.74	12.00	10.56	6.23	298.16
11550.00	70.13	346.79	11398.21	309.42	-148.36	12.00	10.62	6.00	321.18
11575.00	72.80	348.24	11406.16	332.56	-153.48	12.00	10.67	5.80	344.68
11600.00	75.47	349.65	11412.99	356.15	-158.09	12.00	10.71	5.63	368.59
11625.00	78.16	351.02	11418.70	380.15	-162.18	12.00	10.74	5.50	392.85

11650.00	80.85	352.37	11423.25	404.47	-165.73	12.00	10.77	5.39	417.39
11675.00	83.55	353.70	11426.65	429.05	-168.73	12.00	10.79	5.31	442.14
11700.00	86.25	355.01	11428.87	453.83	-171.18	12.00	10.80	5.25	467.03
11725.00	88.95	356.32	11429.92	478.73	-173.07	12.00	10.81	5.22	492.01
11732.90	89.80	356.73	11430.00	486.62	-173.55	12.00	10.81	5.21	499.90
11800.00	89.80	356.73	11430.24	553.61	-177.38	0.00	0.00	0.00	566.97
11900.00	89.80	356.73	11430.59	653.44	-183.08	0.00	0.00	0.00	666.93
12000.00	89.80	356.73	11430.93	753.28	-188.79	0.00	0.00	0.00	766.88
12100.00	89.80	356.73	11431.28	853.12	-194.50	0.00	0.00	0.00	866.83
12200.00	89.80	356.73	11431.63	952.95	-200.21	0.00	0.00	0.00	966.79
12300.00	89.80	356.73	11431.98	1052.79	-205.92	0.00	0.00	0.00	1066.74
12400.00	89.80	356.73	11432.32	1152.63	-211.62	0.00	0.00	0.00	1166.69
12500.00	89.80	356.73	11432.67	1252.46	-217.33	0.00	0.00	0.00	1266.65
12600.00	89.80	356.73	11433.02	1352.30	-223.04	0.00	0.00	0.00	1366.60
12700.00	89.80	356.73	11433.37	1452.13	-228.75	0.00	0.00	0.00	1466.56
12800.00	89.80	356.73	11433.72	1551.97	-234.45	0.00	0.00	0.00	1566.51
12900.00	89.80	356.73	11434.06	1651.81	-240.16	0.00	0.00	0.00	1666.46
13000.00	89.80	356.73	11434.41	1751.64	-245.87	0.00	0.00	0.00	1766.42
13100.00	89.80	356.73	11434.76	1851.48	-251.58	0.00	0.00	0.00	1866.37
13200.00	89.80	356.73	11435.11	1951.32	-257.28	0.00	0.00	0.00	1966.32
13300.00	89.80	356.73	11435.46	2051.15	-262.99	0.00	0.00	0.00	2066.28
13400.00	89.80	356.73	11435.80	2150.99	-268.70	0.00	0.00	0.00	2166.23
13500.00	89.80	356.73	11436.15	2250.83	-274.41	0.00	0.00	0.00	2266.18
13600.00	89.80	356.73	11436.50	2350.66	-280.12	0.00	0.00	0.00	2366.14
13700.00	89.80	356.73	11436.85	2450.50	-285.82	0.00	0.00	0.00	2466.09
13800.00	89.80	356.73	11437.19	2550.34	-291.53	0.00	0.00	0.00	2566.05
13900.00	89.80	356.73	11437.54	2650.17	-297.24	0.00	0.00	0.00	2666.00
14000.00	89.80	356.73	11437.89	2750.01	-302.95	0.00	0.00	0.00	2765.95
14100.00	89.80	356.73	11438.24	2849.84	-308.65	0.00	0.00	0.00	2865.91
14200.00	89.80	356.73	11438.59	2949.68	-314.36	0.00	0.00	0.00	2965.86
14300.00	89.80	356.73	11438.93	3049.52	-320.07	0.00	0.00	0.00	3065.81
14400.00	89.80	356.73	11439.28	3149.35	-325.78	0.00	0.00	0.00	3165.77
14500.00	89.80	356.73	11439.63	3249.19	-331.49	0.00	0.00	0.00	3265.72
14600.00	89.80	356.73	11439.98	3349.03	-337.19	0.00	0.00	0.00	3365.67
14700.00	89.80	356.73	11440.32	3448.86	-342.90	0.00	0.00	0.00	3465.63
14800.00	89.80	356.73	11440.67	3548.70	-348.61	0.00	0.00	0.00	3565.58
14900.00	89.80	356.73	11441.02	3648.54	-354.32	0.00	0.00	0.00	3665.54
15000.00	89.80	356.73	11441.37	3748.37	-360.02	0.00	0.00	0.00	3765.49
15100.00	89.80	356.73	11441.72	3848.21	-365.73	0.00	0.00	0.00	3865.44
15200.00	89.80	356.73	11442.06	3948.04	-371.44	0.00	0.00	0.00	3965.40
15300.00	89.80	356.73	11442.41	4047.88	-377.15	0.00	0.00	0.00	4065.35
15400.00	89.80	356.73	11442.76	4147.72	-382.86	0.00	0.00	0.00	4165.30
15500.00	89.80	356.73	11443.11	4247.55	-388.56	0.00	0.00	0.00	4265.26
15600.00	89.80	356.73	11443.46	4347.39	-394.27	0.00	0.00	0.00	4365.21
15700.00	89.80	356.73	11443.80	4447.23	-399.98	0.00	0.00	0.00	4465.16
15800.00	89.80	356.73	11444.15	4547.06	-405.69	0.00	0.00	0.00	4565.12
15900.00	89.80	356.73	11444.50	4646.90	-411.39	0.00	0.00	0.00	4665.07

16000.00	89.80	356.73	11444.85	4746.74	-417.10	0.00	0.00	0.00	4765.03
16044.04	89.80	356.73	11445.00	4790.70	-419.62	0.00	0.00	0.00	4809.05