

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6175 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

NM OIL CONSERVATION
State of New Mexico
ARTESIA DISTRICT
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
SANTA FE, NM 87505
RECEIVED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-43041	² Pool Code 96405 97860	³ Pool Name Wildcat Bone Spring Jennings: BS: West
⁴ Property Code 38600	⁵ Property Name SNAPPING 2 STATE	⁶ Well Number 11H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3291.4

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
2	2	26 S	31 E		220	NORTH	2490	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	26 S	31 E		330	SOUTH	2200	WEST	EDDY

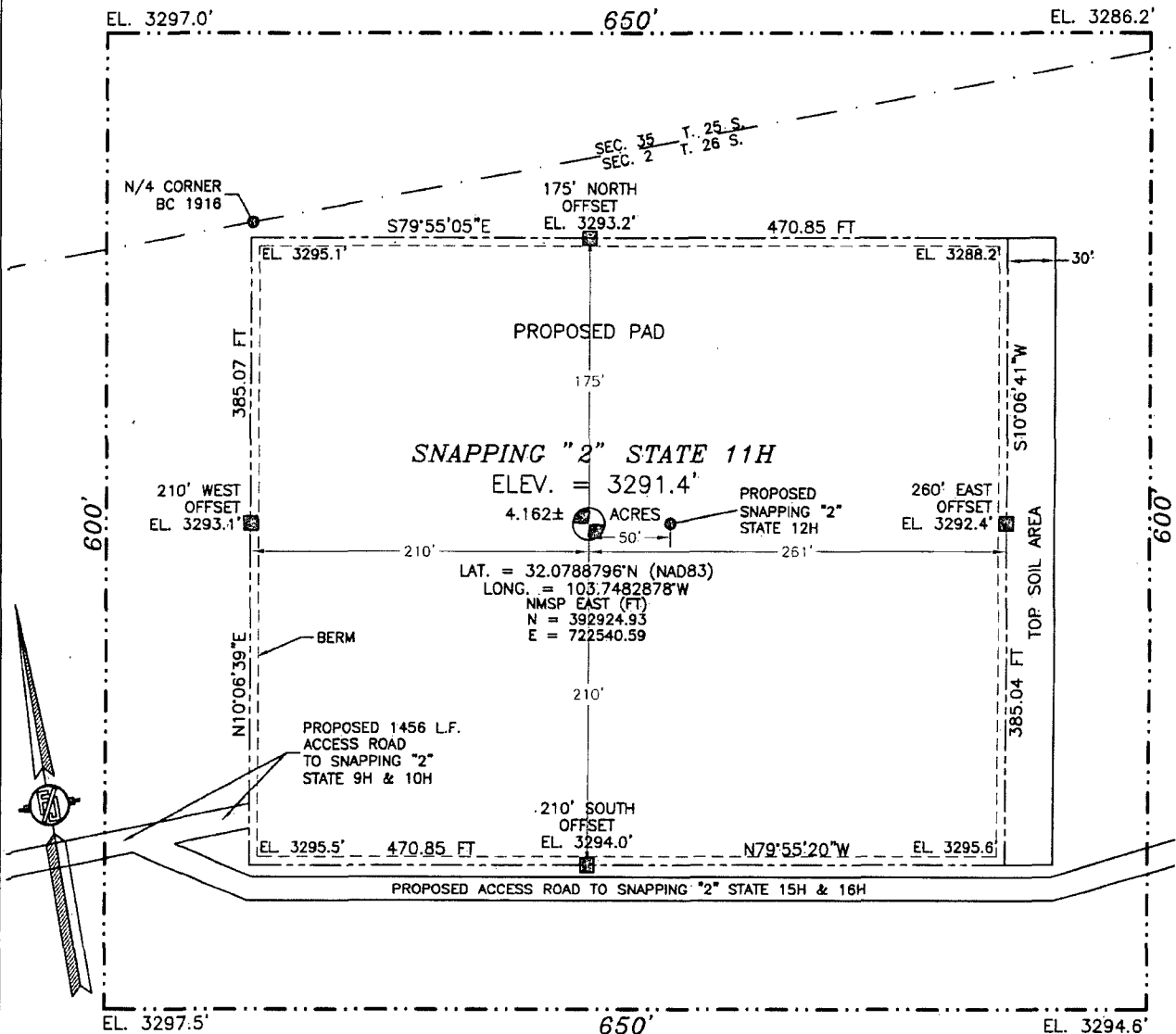
¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°33'35"E 2661.22 FT NW CORNER SEC. 2 LAT. = 32.0794668°N LONG. = 103.7574356°W NMSP EAST (FT) N = 393123.30 E = 719706.10 W/4 CORNER SEC. 2 LAT. = 32.0721403°N LONG. = 103.7574402°W NMSP EAST (FT) N = 390458.06 E = 719718.90 SW CORNER SEC. 2 LAT. = 32.0648111°N LONG. = 103.7574377°W NMSP EAST (FT) N = 387791.85 E = 719733.91 SCALED		N89°32'50"E 2662.17 FT N/4 CORNER SEC. 2 LAT. = 32.0794837°N LONG. = 103.7488454°W NMSP EAST (FT) N = 393143.74 E = 722366.68 NE CORNER SEC. 2 LAT. = 32.0795016°N LONG. = 103.7402522°W NMSP EAST (FT) N = 393164.77 E = 725028.21 E/4 CORNER SEC. 2 LAT. = 32.0721721°N LONG. = 103.7402701°W NMSP EAST (FT) N = 390498.43 E = 725037.32 SE CORNER SEC. 2 LAT. = 32.0648918°N LONG. = 103.7402835°W NMSP EAST (FT) N = 387849.96 E = 725047.73	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Linda Good</i> 4/14/2015 Signature Date Linda Good Printed Name linda.good@dvn.com E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of previous surveys made by me or under my supervision and that the same is true and correct to the best of my belief. APR 15 2015 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: PLINION F. JARAMILLO, PLS 12797 SURVEY NO. 2161B
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**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 THE INTERSECTION OF COUNTY ROAD #1 (ORLA HWY) AND ROSS ROAD GO WEST ON ROSS ROAD APPROX. 4.9 MILES TO A LEASE ROAD TO THE RIGHT (NORTH) TURN NORTH GO APPROX. 1.0 MILE TO A ROAD LATH WITH RED AND WHITE FLAGGING ON RIGHT (EAST) OF LEASE ROAD GO EAST FOLLOW ROAD LATHS APPROX. 0.12 MILE TO SOUTHWEST PAD CORNER FOR SNAPPING "2" STATE 9H & 10H, FROM SOUTHWEST PAD CORNER FOLLOW ROAD LATHS APPROX. 0.3 MILE TO LOCATION

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE 11H

**LOCATED 220 FT. FROM THE NORTH LINE
AND 2490 FT. FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO**

APRIL 6, 2015.

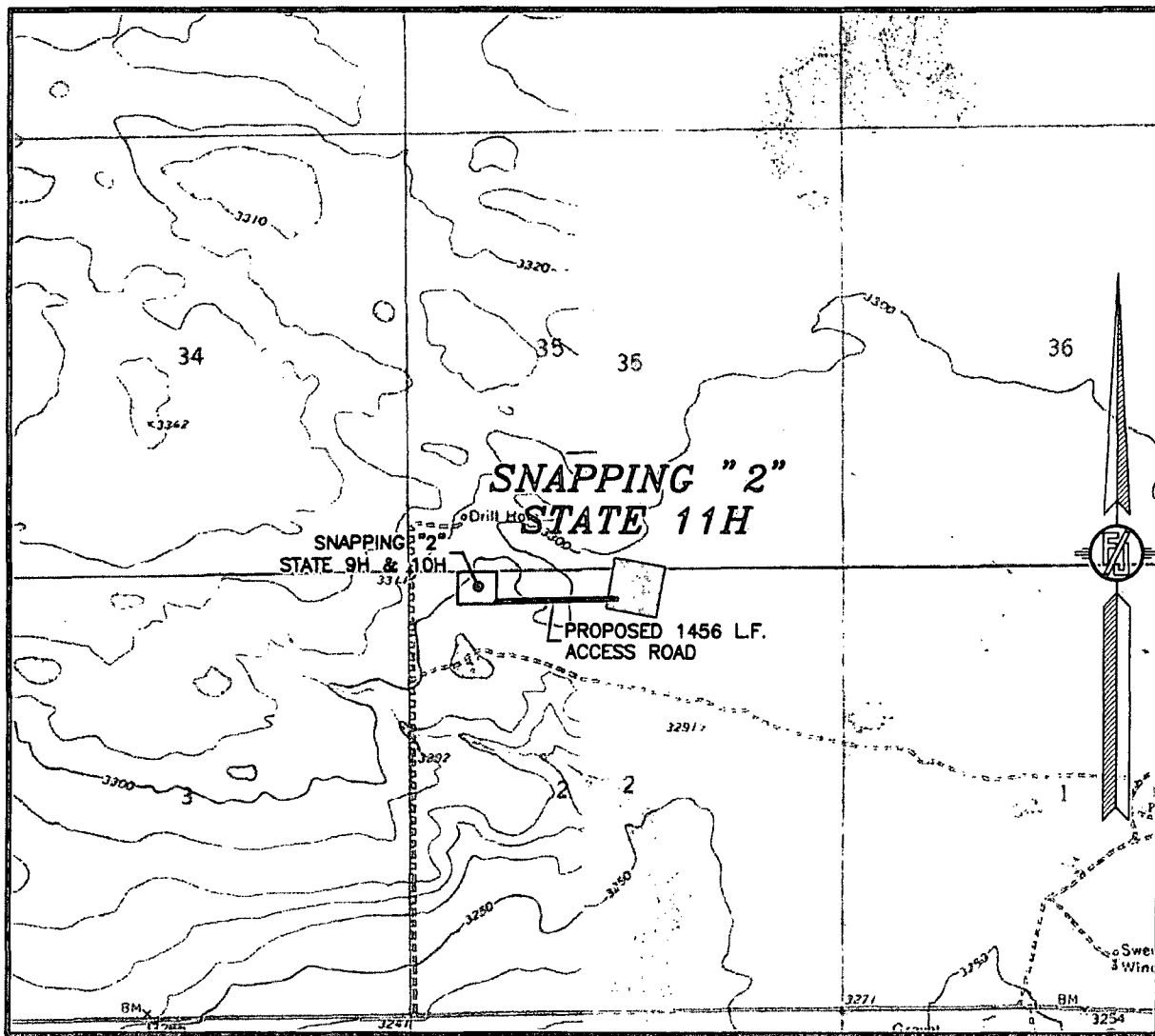
SURVEY NO. 2161B

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

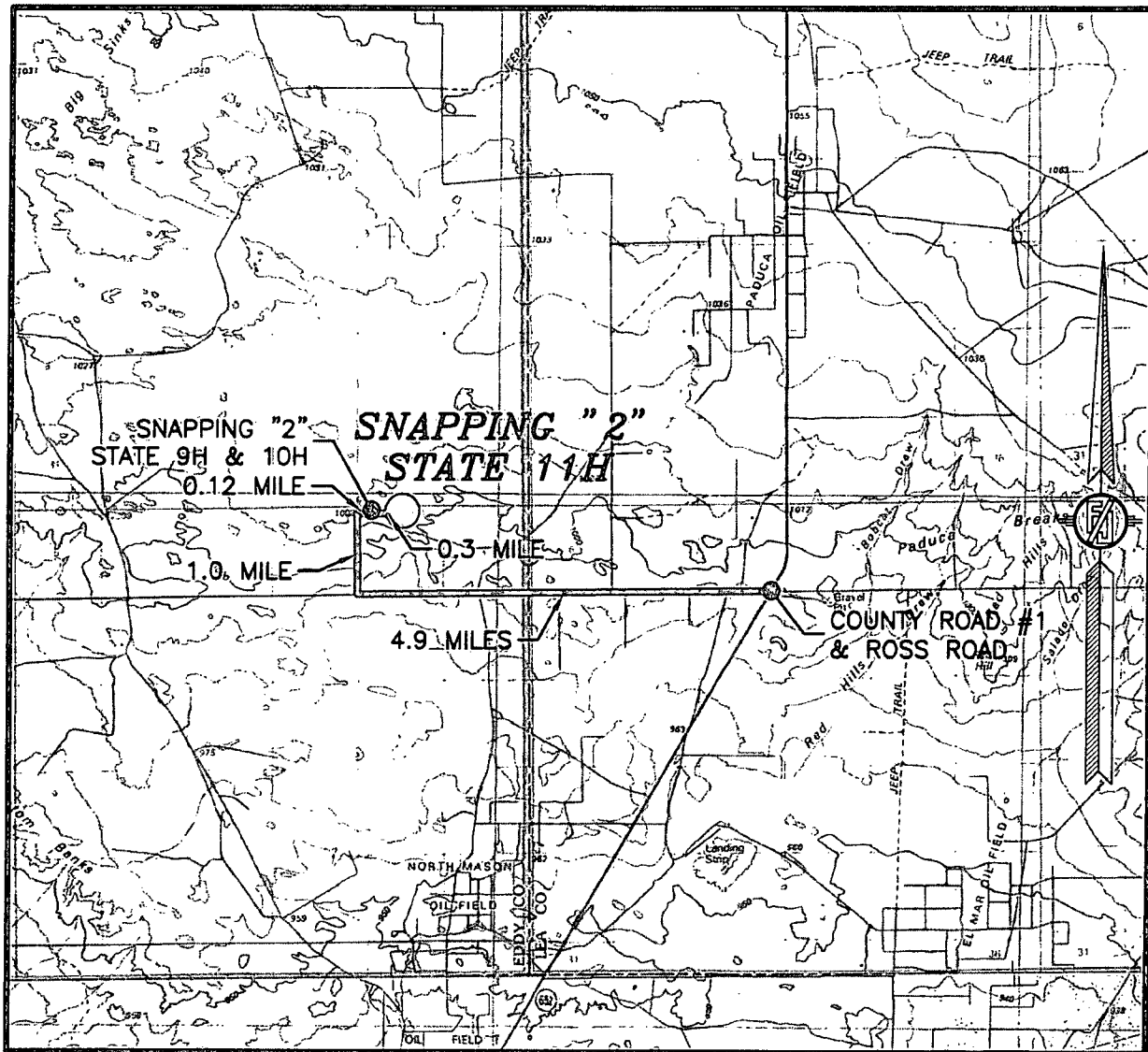
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 EDDY COUNTY, STATE OF NEW MEXICO

APRIL 6, 2015

SURVEY NO. 2161B

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



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF COUNTY ROAD #1 (ORLA HWY) AND ROSS ROAD GO WEST ON ROSS ROAD APPROX. 4.9 MILES TO A LEASE ROAD TO THE RIGHT (NORTH) TURN NORTH GO APPROX. 1.0 MILE TO A ROAD LATH WITH RED AND WHITE FLAGGING ON RIGHT (EAST) OF LEASE ROAD GO EAST FOLLOW ROAD LATHS APPROX. 0.12 MILE TO SOUTHWEST PAD CORNER FOR SNAPPING "2" STATE 9H & 10H, FROM SOUTHEAST PAD CORNER FOLLOW ROAD LATHS APPROX. 0.3 MILE TO LOCATION

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE 11H

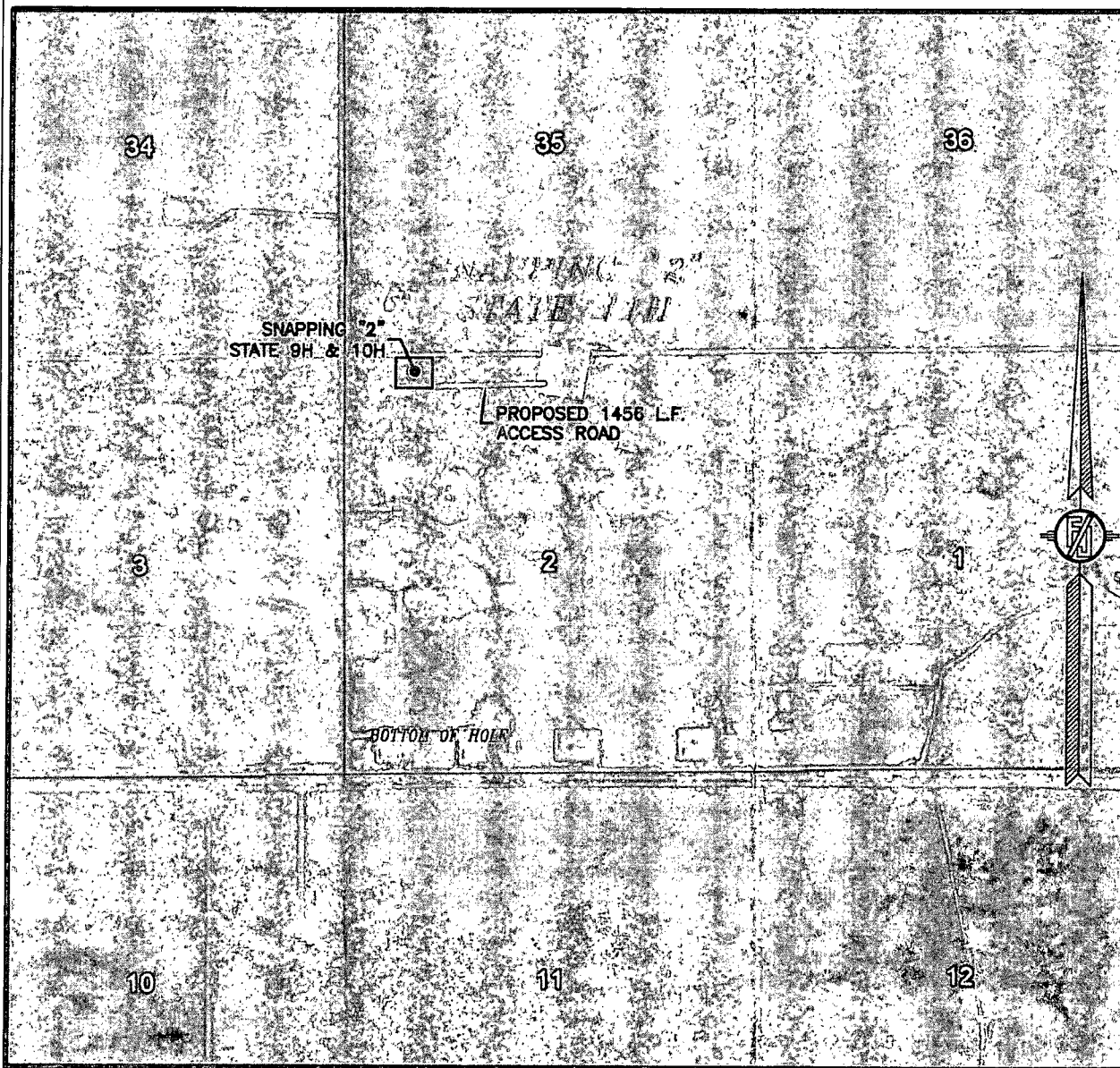
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SECTION 2, TOWNSHIP 26 SOUTH,
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EDDY COUNTY, STATE OF NEW MEXICO

APRIL 6, 2015

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

SURVEY NO. 2161B
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
APR. 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE 11H

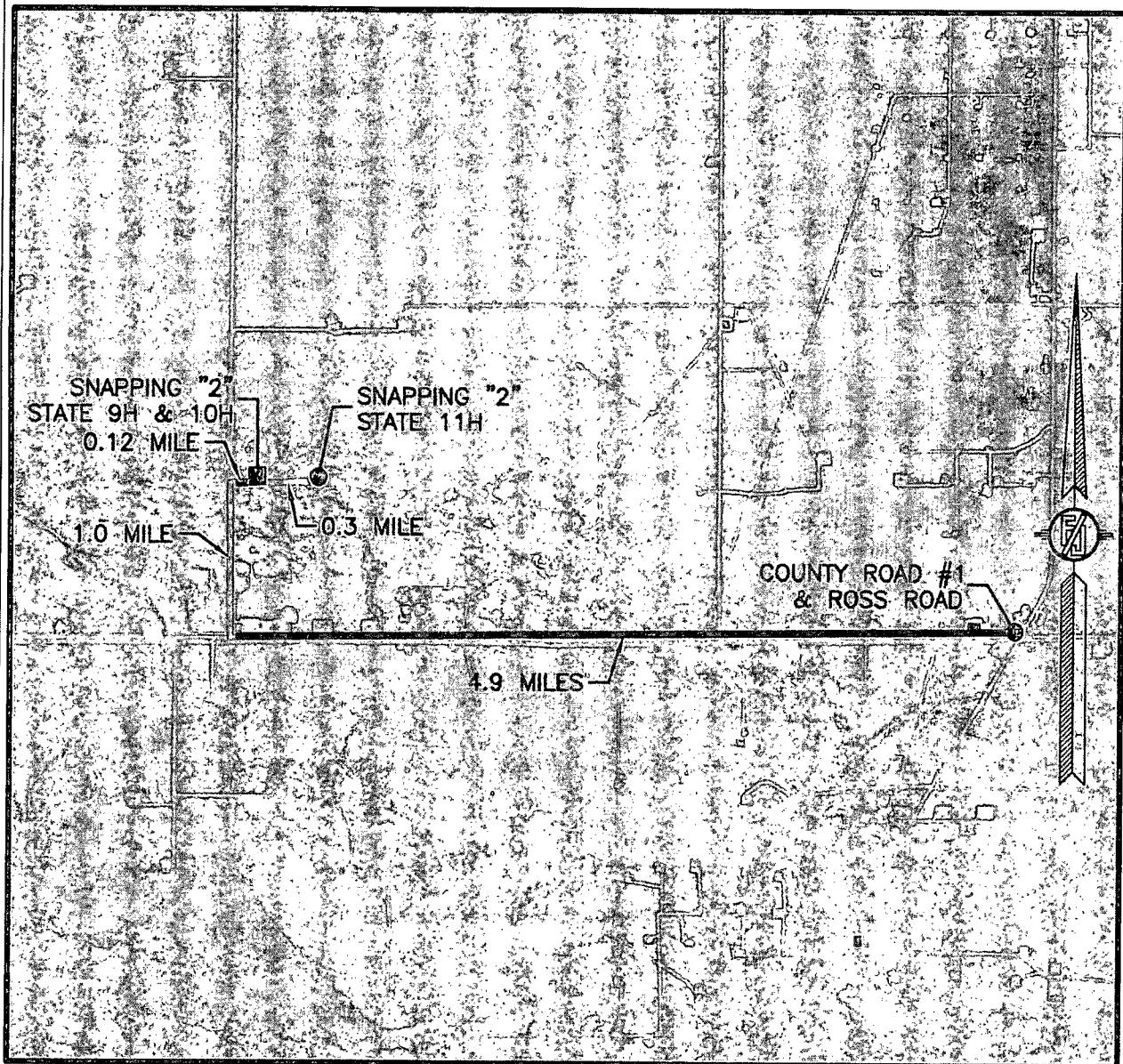
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EDDY COUNTY, STATE OF NEW MEXICO

APRIL 6, 2015

SURVEY NO. 2161B

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 ACCESS ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
APR. 2013

DEVON ENERGY PRODUCTION COMPANY, L.P.

SNAPPING "2" STATE 11H

LOCATED 220 FT. FROM THE NORTH LINE
AND 2490 FT. FROM THE EAST LINE OF
SECTION 2, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

APRIL 6, 2015

SURVEY NO. 2161B

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

Devon Energy, Snapping 2 State 11H

1. Geologic Formations

TVD of target	10,239'	Pilot hole depth	N/A
MD at TD:	14,825'	Deepest expected fresh water:	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	922	Barren	
Salado	1,272	Barren	
Base of Salt	4,017	Barren	
Delaware	4,237	Oil	
Bell Canyon	4,267	Oil	
Cherry Canyon	5,252	Oil	
Brushy Canyon	6,592	Oil	
1 st Bone Spring Lime	8,267	Oil	
1 st Bone Spring Sand	9,172	Oil	
2 nd Bone Spring Lime	9,492	Oil	
2 nd Bone Spring Sand	9,842	Oil	
3 rd Bone Spring Lime	10,387	Oil	

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

Devon Energy, Snapping 2 State 11H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	960'	13.375"	54.5	J-55	BTC	1.78	3.20	5.87
12.25"	0	4,100'	9.625"	40	J-55	LTC	1.75	1.49	2.60
8.75"	0	11,657'	7"	29	P-110	BTC	1.27	2.43	2.66
8.75"	9,500'	14,825'	5.5"	17	P-110	BTC	1.20	1.45	3.06
BLM Minimum Safety Factor							1.125	1.00	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, Snapping 2 State 11H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	1030	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	810	12.9	9.81	1.85	14	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
7 x 5-1/2" Combo Prod.	370	10.4	16.9	3.17	16	Lead: Tuned Light ® + 0.125 lb/sk Pol-E-Flake
	1370	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

Casing String	TOC	% Excess
13-3/8" Surface	0'	100%
9-5/8" Intermediate	0'	75%
7 x 5-1/2" Production Casing	3600'	25%

Devon Energy, Snapping 2 State 11H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	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		50% testing pressure
			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.
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Devon Energy, Snapping 2 State 11H

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, Snapping 2 State 11H

	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	960'	FW Gel	8.6-8.8	28-34	N/C
960'	4,100'	Saturated Brine	10.0-10.2	28-34	N/C
4,100'	14,825'	Cut Brine	8.5-9.3	28-34	N/C

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

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

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

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

Devon Energy, Snapping 2 State 11H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	2699 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	H ₂ S is present
Y	H ₂ S Plan attached

8. Other facets of operation

Is this a walking operation? No.

Will be pre-setting casing? No.

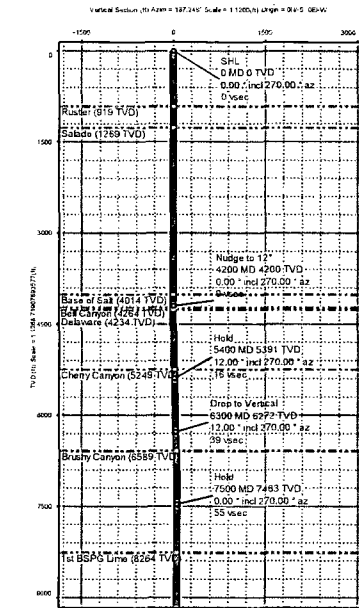
Attachments

☒ Directional Plan

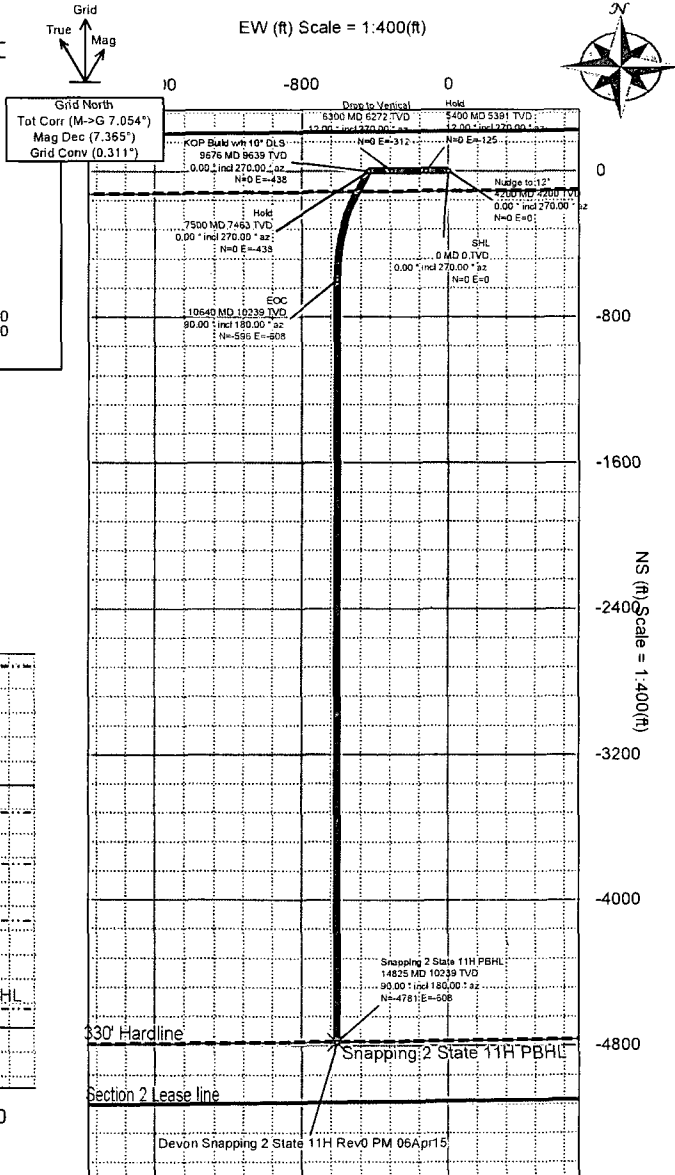
☐ Other, describe

Borehole:	Well:	Field:	Structure:
Original Borehole	Snapping "2" State 11H	Eddy County (NAD83)	Devon Snapping "2" State 11H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: BGGM 2014 Dip: 59.917° Date: 06-Apr-2015	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Slot: Snapping "2" TVD Ref: Cactus 105 RKB=28'(3319.4ft above Mean Sea Level)
MagDec: 7.365° FS: 48075.132nT Gravity FS: 998.424mgn (9.80665 Based)	Lat: N 32 4 43.97 Northing: 392924.93ftUS Grid Conv: 0.3107°	Plan: Devon Snapping 2 State 11H Rev0 PM 06Apr15
	Lon: W 103 44 53.84 Easting: 722540.59ftUS Scale Fact: 0.9999467	



Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00
Rustler	919.00	0.00	270.00	919.00	0.00	0.00	0.00	0.00
Salado	1269.00	0.00	270.00	1269.00	0.00	0.00	0.00	0.00
Base of Salt	4014.00	0.00	270.00	4014.00	0.00	0.00	0.00	0.00
Nudge to 12"	4200.00	0.00	270.00	4200.00	0.00	0.00	0.00	0.00
Delaware	4234.00	0.34	270.00	4234.00	0.01	0.00	-0.10	1.00
Bell Canyon	4264.00	0.64	270.00	4264.00	0.05	0.00	-0.36	1.00
Cherry Canyon	5254.95	10.55	270.00	5249.00	12.22	0.00	-96.85	1.00
Hold	5400.00	12.00	270.00	5391.25	15.80	0.00	-125.21	1.00
Drop to Vertical	6300.00	12.00	270.00	6271.58	39.41	0.00	-312.33	0.00
Brushy Canyon	6622.75	8.77	270.00	6589.00	46.75	0.00	-370.50	1.00
Hold	7500.00	0.00	270.00	7462.83	55.20	0.00	-437.53	1.00
1st BSPG Lime	8301.17	0.00	270.00	8264.00	55.20	0.00	-437.53	0.00
1st BSPG Sand	9206.17	0.00	270.00	9169.00	55.20	0.00	-437.53	0.00
2nd BSPG Lime	9526.17	0.00	270.00	9489.00	55.20	0.00	-437.53	0.00
KOP Build w/h 10" DLS	9676.10	0.00	270.00	9638.93	55.20	0.00	-437.53	0.00
2nd BSPG Sand	9880.48	20.44	208.05	9839.00	88.92	-31.83	-454.49	10.00
Snapping 2 State 11H	10639.98	90.00	180.00	10239.00	667.77	-595.80	-608.11	10.00
SHL	14824.85	90.00	180.00	10239.00	4819.19	-4780.67	-608.04	0.00
3rd BSPG Lime	NaN			10384.00				



Vertical Section (ft) Azim = 187.25° Scale = 1:450(ft) Origin = 0N/-S, 0E/-W

Devon Snapping 2 State 11H Rev0 PM 06Apr15 Proposal Geodetic Report

(Def Plan)

Report Date: April 09, 2015 - 05:30 PM
Client: Devon
Field: Eddy County (NAD83)
Structure / Slot: Devon Snapping "2" State 11H / Devon Snapping "2" State 11H
Well: Snapping "2" State 11H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Devon Snapping 2 State 11H Rev0 PM 06Apr15
Survey Date: April 06, 2015
Tort / AHD / DDI / ERD Ratio: 120.389 ° / 5251.340 ft / 5.962 / 0.513
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 4' 43.96662", W 103° 44' 53.83599"
Location Grid N/E Y/X: N 392924.930 ftUS, E 722540.590 ftUS
CRS Grid Convergence Angle: 0.3107 °
Grid Scale Factor: 0.9999467
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 187.248 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Cactus 105 RKB=28'
TVD Reference Elevation: 3319.400 ft above Mean Sea Level
Seabed / Ground Elevation: 3291.400 ft above Mean Sea Level
Magnetic Declination: 7.365 °
Total Gravity Field Strength: 998.4245mgm (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48075.132 nT
Magnetic Dip Angle: 59.917 °
Declination Date: April 06, 2015
Magnetic Declination Model: BGGM 2014
North Reference: Grid North
Grid Convergence Used: 0.3107 °
Total Corr Mag North->Grid North: 7.0541 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	270.00	0.00	0.00	0.00	0.00	N/A	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
Nudge to 12"	4200.00	0.00	270.00	4200.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
Hold	5400.00	12.00	270.00	5391.25	15.80	0.00	-125.21	1.00	392924.93	722415.39	N 32 4 43.97	W 103 44 55.29
Drop to Vertical	6300.00	12.00	270.00	6271.58	39.41	0.00	-312.33	0.00	392924.93	722228.28	N 32 4 43.98	W 103 44 57.47
Hold	7500.00	0.00	270.00	7462.83	55.20	0.00	-437.53	1.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
KOP Build w/h 10" DLS	9676.10	0.00	270.00	9638.93	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
EOC	10126.10	45.00	208.05	10044.07	212.08	-148.10	-516.44	10.00	392776.83	722024.17	N 32 4 42.53	W 103 44 59.85
	10639.98	90.00	180.00	10239.00	687.77	-595.80	-608.11	10.00	392329.16	721932.52	N 32 4 38.10	W 103 45 0.94
Snapping 2 State 11H PBHL	14824.85	90.00	180.00	10239.00	4819.19	-4780.67	-608.04	0.00	388144.52	721932.58	N 32 3 56.69	W 103 45 1.20

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Devon Snapping 2 State 11H Rev0 PM
	1	28.000	14824.846	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Devon Snapping 2 State 11H Rev0 PM

Devon Snapping 2 State 11H Rev0 PM 06Apr15 Proposal Geodetic Report

(Def Plan)

Report Date: April 09, 2015 - 05:30 PM
Client: Devon
Field: Eddy County (NAD83)
Structure / Slot: Devon Snapping "2" State 11H / Devon Snapping "2" State 11H
Well: Snapping "2" State 11H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Devon Snapping 2 State 11H Rev0 PM 06Apr15
Survey Date: April 08, 2015
Tort / AHD / DDI / ERD Ratio: 120.389 * / 5251.340 ft / 5.962 / 0.513
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 4' 43.96662", W 103° 44' 53.83599"
Location Grid N/E Y/X: N 392924.930 ftUS, E 722540.590 ftUS
CRS Grid Convergence Angle: 0.3107 °
Grid Scale Factor: 0.9999467
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 187.248 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Cactus 105 RKB=28'
TVD Reference Elevation: 3319.400 ft above Mean Sea Level
Seabed / Ground Elevation: 3291.400 ft above Mean Sea Level
Magnetic Declination: 7.365 °
Total Gravity Field Strength: 998.4245mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48075.132 nT
Magnetic Dip Angle: 59.917 °
Declination Date: April 08, 2015
Magnetic Declination Model: BGGM 2014
North Reference: Grid North
Grid Convergence Used: 0.3107 °
Total Corr Mag North->Grid North: 7.0541 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")	
SHL	0.00	0.00	270.00	0.00	0.00	0.00	0.00	N/A	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	100.00	0.00	270.00	100.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	200.00	0.00	270.00	200.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	300.00	0.00	270.00	300.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	400.00	0.00	270.00	400.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	500.00	0.00	270.00	500.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	600.00	0.00	270.00	600.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	700.00	0.00	270.00	700.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	800.00	0.00	270.00	800.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	900.00	0.00	270.00	900.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
Rustler	919.00	0.00	270.00	919.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1000.00	0.00	270.00	1000.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1100.00	0.00	270.00	1100.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1200.00	0.00	270.00	1200.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
Salado	1269.00	0.00	270.00	1269.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1300.00	0.00	270.00	1300.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1400.00	0.00	270.00	1400.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1600.00	0.00	270.00	1600.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1700.00	0.00	270.00	1700.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1800.00	0.00	270.00	1800.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	1900.00	0.00	270.00	1900.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2000.00	0.00	270.00	2000.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2100.00	0.00	270.00	2100.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2200.00	0.00	270.00	2200.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2300.00	0.00	270.00	2300.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2400.00	0.00	270.00	2400.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2500.00	0.00	270.00	2500.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2600.00	0.00	270.00	2600.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84	
	2700.00	0.00	270.00	2700.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	2800.00	0.00	270.00	2800.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	2900.00	0.00	270.00	2900.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3000.00	0.00	270.00	3000.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3100.00	0.00	270.00	3100.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3200.00	0.00	270.00	3200.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3300.00	0.00	270.00	3300.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3400.00	0.00	270.00	3400.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3500.00	0.00	270.00	3500.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3600.00	0.00	270.00	3600.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3700.00	0.00	270.00	3700.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3800.00	0.00	270.00	3800.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	3900.00	0.00	270.00	3900.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	4000.00	0.00	270.00	4000.00	0.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	Base of Salt	4014.00	0.00	270.00	4014.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	Nudge to 12"	4100.00	0.00	270.00	4100.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	Delaware	4200.00	0.00	270.00	4200.00	0.00	0.00	0.00	0.00	392924.93	722540.59	N 32 4 43.97	W 103 44 53.84
	Bell Canyon	4234.00	0.34	270.00	4234.00	0.01	0.00	-0.10	1.00	392924.93	722540.49	N 32 4 43.97	W 103 44 53.84
		4264.00	0.64	270.00	4264.00	0.05	0.00	-0.36	1.00	392924.93	722540.23	N 32 4 43.97	W 103 44 53.84
		4300.00	1.00	270.00	4299.99	0.11	0.00	-0.87	1.00	392924.93	722539.72	N 32 4 43.97	W 103 44 53.85
		4400.00	2.00	270.00	4399.99	0.44	0.00	-3.49	1.00	392924.93	722537.10	N 32 4 43.97	W 103 44 53.88
		4500.00	3.00	270.00	4499.98	0.99	0.00	-7.85	1.00	392924.93	722532.74	N 32 4 43.97	W 103 44 53.93
		4600.00	4.00	270.00	4599.98	1.76	0.00	-13.96	1.00	392924.93	722526.63	N 32 4 43.97	W 103 44 54.00
		4700.00	5.00	270.00	4699.97	2.75	0.00	-21.80	1.00	392924.93	722518.79	N 32 4 43.97	W 103 44 54.09
		4800.00	6.00	270.00	4799.90	3.96	0.00	-31.39	1.00	392924.93	722509.20	N 32 4 43.97	W 103 44 54.20
4900.00		7.00	270.00	4898.26	5.39	0.00	-42.71	1.00	392924.93	722497.88	N 32 4 43.97	W 103 44 54.33	
5000.00		8.00	270.00	4997.40	7.04	0.00	-55.76	1.00	392924.93	722484.83	N 32 4 43.97	W 103 44 54.48	
5100.00		9.00	270.00	5096.30	8.90	0.00	-70.54	1.00	392924.93	722470.05	N 32 4 43.97	W 103 44 54.66	
5200.00		10.00	270.00	5194.93	10.98	0.00	-87.05	1.00	392924.93	722453.55	N 32 4 43.97	W 103 44 54.85	
5254.95		10.55	270.00	5249.00	12.22	0.00	-96.85	1.00	392924.93	722443.75	N 32 4 43.97	W 103 44 54.96	
5300.00		11.00	270.00	5293.26	13.28	0.00	-105.27	1.00	392924.93	722435.33	N 32 4 43.97	W 103 44 55.06	
5400.00		12.00	270.00	5391.25	15.80	0.00	-125.21	1.00	392924.93	722415.39	N 32 4 43.97	W 103 44 55.29	
5500.00		12.00	270.00	5489.06	18.42	0.00	-148.00	1.00	392924.93	722394.60	N 32 4 43.97	W 103 44 55.53	
5600.00		12.00	270.00	5586.88	21.04	0.00	-166.79	0.00	392924.93	722373.81	N 32 4 43.98	W 103 44 55.77	
5700.00		12.00	270.00	5684.69	23.67	0.00	-187.58	0.00	392924.93	722353.02	N 32 4 43.98	W 103 44 56.02	
	5800.00	12.00	270.00	5782.51	26.29	0.00	-208.37	0.00	392924.93	722332.23	N 32 4 43.98	W 103 44 56.26	
	5900.00	12.00	270.00	5880.32	28.91	0.00	-229.16	0.00	392924.93	722311.44	N 32 4 43.98	W 103 44 56.50	
	6000.00	12.00	270.00	5978.13	31.54	0.00	-249.95	0.00	392924.93	722290.65	N 32 4 43.98	W 103 44 56.74	
	6100.00	12.00	270.00	6075.95	34.16	0.00	-270.74	0.00	392924.93	722269.86	N 32 4 43.98	W 103 44 56.98	
	6200.00	12.00	270.00	6173.76	36.78	0.00	-291.53	0.00	392924.93	722249.07	N 32 4 43.98	W 103 44 57.22	
	6300.00	12.00	270.00	6271.58	39.41	0.00	-312.33	0.00	392924.93	722228.28	N 32 4 43.98	W 103 44 57.47	
	6400.00	11.00	270.00	6369.57	41.92	0.00	-332.26	1.00	392924.93	722208.35	N 32 4 43.98	W 103 44 57.70	
	6500.00	10.00	270.00	6467.89	44.22	0.00	-350.49	1.00	392924.93	722190.12	N 32 4 43.99	W 103 44 57.91	
	6600.00	9.00	270.00	6566.52	46.30	0.00	-366.99	1.00	392924.93	722173.62	N 32 4 43.99	W 103 44 58.10	
	6622.75	8.77	270.00	6589.00	46.75	0.00	-370.50	1.00	392924.93	722170.11	N 32 4 43.99	W 103 44 58.14	
Brushy Canyon	6700.00	8.00	270.00	6665.42									

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7100.00	4.00	270.00	7063.15	53.44	0.00	-423.57	1.00	392924.93	722117.04	N 32 4 43.99	W 103 44 58.76
	7200.00	3.00	270.00	7162.96	54.21	0.00	-429.68	1.00	392924.93	722110.94	N 32 4 43.99	W 103 44 58.83
	7300.00	2.00	270.00	7262.87	54.76	0.00	-434.04	1.00	392924.93	722106.57	N 32 4 43.99	W 103 44 58.88
	7400.00	1.00	270.00	7362.83	55.09	0.00	-436.66	1.00	392924.93	722103.96	N 32 4 43.99	W 103 44 58.91
Hold	7500.00	0.00	270.00	7462.83	55.20	0.00	-437.53	1.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	7600.00	0.00	270.00	7562.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	7700.00	0.00	270.00	7662.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	7800.00	0.00	270.00	7762.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	7900.00	0.00	270.00	7862.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8000.00	0.00	270.00	7962.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8100.00	0.00	270.00	8062.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8200.00	0.00	270.00	8162.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8300.00	0.00	270.00	8262.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
1st BSPG Lime	8301.17	0.00	270.00	8264.00	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8400.00	0.00	270.00	8362.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8500.00	0.00	270.00	8462.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8600.00	0.00	270.00	8562.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8700.00	0.00	270.00	8662.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8800.00	0.00	270.00	8762.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	8900.00	0.00	270.00	8862.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9000.00	0.00	270.00	8962.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9100.00	0.00	270.00	9062.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9200.00	0.00	270.00	9162.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
1st BSPG Sand	9206.17	0.00	270.00	9169.00	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9300.00	0.00	270.00	9262.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9400.00	0.00	270.00	9362.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9500.00	0.00	270.00	9462.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
2nd BSPG Lime	9526.17	0.00	270.00	9489.00	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9600.00	0.00	270.00	9562.83	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
KOP Build with 10" DLS	9676.10	0.00	270.00	9638.93	55.20	0.00	-437.53	0.00	392924.93	722103.08	N 32 4 43.99	W 103 44 58.92
	9700.00	2.39	208.05	9662.82	55.67	-0.44	-437.76	10.00	392924.49	722102.85	N 32 4 43.99	W 103 44 58.92
	9800.00	12.39	208.05	9761.86	67.68	-11.78	-443.81	10.00	392913.15	722096.81	N 32 4 43.87	W 103 44 58.99
2nd BSPG Sand	9880.48	20.44	208.05	9839.00	88.92	-31.83	-454.49	10.00	392893.10	722086.12	N 32 4 43.68	W 103 44 59.12
	9900.00	22.39	208.05	9857.17	95.58	-38.12	-457.84	10.00	392886.81	722082.77	N 32 4 43.61	W 103 44 59.16
	10000.00	32.39	208.05	9945.85	138.53	-78.67	-479.45	10.00	392846.26	722061.17	N 32 4 43.21	W 103 44 59.41
	10100.00	42.39	208.05	10025.20	195.23	-132.19	-507.97	10.00	392792.74	722032.65	N 32 4 42.69	W 103 44 59.75
	10126.10	45.00	208.05	10044.07	212.08	-148.10	-516.44	10.00	392776.83	722024.17	N 32 4 42.53	W 103 44 59.85
	10200.00	51.05	202.34	10093.49	264.32	-197.81	-539.69	10.00	392727.13	722000.93	N 32 4 42.04	W 103 45 0.12
	10300.00	59.60	196.01	10150.36	344.70	-275.43	-566.43	10.00	392649.52	721974.19	N 32 4 41.27	W 103 45 0.44
	10400.00	68.41	190.73	10194.18	433.95	-362.78	-587.03	10.00	392562.17	721953.59	N 32 4 40.41	W 103 45 0.68
	10500.00	77.36	186.06	10223.60	529.37	-457.22	-600.87	10.00	392467.74	721939.76	N 32 4 39.47	W 103 45 0.85
EOC	10600.00	86.38	181.70	10237.73	628.07	-555.86	-607.51	10.00	392369.10	721933.11	N 32 4 38.50	W 103 45 0.93
	10639.98	90.00	180.00	10239.00	667.77	-595.80	-608.11	10.00	392329.16	721932.52	N 32 4 38.10	W 103 45 0.94
	10700.00	90.00	180.00	10239.00	727.31	-655.83	-608.11	0.00	392269.14	721932.52	N 32 4 37.51	W 103 45 0.94
	10800.00	90.00	180.00	10239.00	826.51	-755.83	-608.11	0.00	392169.14	721932.52	N 32 4 36.52	W 103 45 0.95
	10900.00	90.00	180.00	10239.00	925.71	-855.83	-608.11	0.00	392069.15	721932.52	N 32 4 35.53	W 103 45 0.96
	11000.00	90.00	180.00	10239.00	1024.92	-955.83	-608.11	0.00	391969.15	721932.52	N 32 4 34.54	W 103 45 0.96
	11100.00	90.00	180.00	10239.00	1124.12	-1055.83	-608.11	0.00	391869.16	721932.52	N 32 4 33.55	W 103 45 0.97
	11200.00	90.00	180.00	10239.00	1223.32	-1155.83	-608.11	0.00	391769.17	721932.52	N 32 4 32.56	W 103 45 0.98
	11300.00	90.00	180.00	10239.00	1322.52	-1255.83	-608.11	0.00	391669.17	721932.52	N 32 4 31.57	W 103 45 0.98
	11400.00	90.00	180.00	10239.00	1421.72	-1355.83	-608.11	0.00	391569.18	721932.52	N 32 4 30.58	W 103 45 0.99
	11500.00	90.00	180.00	10239.00	1520.92	-1455.83	-608.11	0.00	391469.18	721932.52	N 32 4 29.59	W 103 45 0.99
	11600.00	90.00	180.00	10239.00	1620.12	-1555.83	-608.10	0.00	391369.19	721932.52	N 32 4 28.60	W 103 45 1.00
	11700.00	90.00	180.00	10239.00	1719.32	-1655.83	-608.10	0.00	391269.19	721932.52	N 32 4 27.61	W 103 45 1.01
	11800.00	90.00	180.00	10239.00	1818.52	-1755.83	-608.10	0.00	391169.20	721932.52	N 32 4 26.62	W 103 45 1.01
	11900.00	90.00	180.00	10239.00	1917.72	-1855.83	-608.10	0.00	391069.20	721932.52	N 32 4 25.64	W 103 45 1.02
	12000.00	90.00	180.00	10239.00	2016.92	-1955.83	-608.10	0.00	390969.21	721932.52	N 32 4 24.65	W 103 45 1.03
	12100.00	90.00	180.00	10239.00	2116.12	-2055.83	-608.10	0.00	390869.22	721932.52	N 32 4 23.66	W 103 45 1.03
	12200.00	90.00	180.00	10239.00	2215.32	-2155.83	-608.10	0.00	390769.22	721932.52	N 32 4 22.67	W 103 45 1.04
	12300.00	90.00	180.00	10239.00	2314.53	-2255.83	-608.10	0.00	390669.23	721932.53	N 32 4 21.68	W 103 45 1.05
	12400.00	90.00	180.00	10239.00	2413.73	-2355.83	-608.10	0.00	390569.23	721932.53	N 32 4 20.69	W 103 45 1.05
	12500.00	90.00	180.00	10239.00	2512.93	-2455.83	-608.10	0.00	390469.24	721932.53	N 32 4 19.70	W 103 45 1.06
	12600.00	90.00	180.00	10239.00	2612.13	-2555.83	-608.09	0.00	390369.24	721932.53	N 32 4 18.71	W 103 45 1.06
	12700.00	90.00	180.00	10239.00	2711.33	-2655.83	-608.09	0.00	390269.25	721932.53	N 32 4 17.72	W 103 45 1.07
	12800.00	90.00	180.00	10239.00	2810.53	-2755.83	-608.09	0.00	390169.25	721932.53	N 32 4 16.73	W 103 45 1.08
	12900.00	90.00	180.00	10239.00	2909.73	-2855.83	-608.09	0.00	390069.26	721932.53	N 32 4 15.74	W 103 45 1.08
	13000.00	90.00	180.00	10239.00	3008.93	-2955.83	-608.09	0.00	389969.27	721932.54	N 32 4 14.75	W 103 45 1.09
	13100.00	90.00	180.00	10239.00	3108.13	-3055.83	-608.09	0.00	389869.27	721932.54	N 32 4 13.76	W 103 45 1.10
	13200.00	90.00	180.00	10239.00	3207.33	-3155.83	-608.08	0.00	389769.28	721932.54	N 32 4 12.77	W 103 45 1.10
	13300.00	90.00	180.00	10239.00	3306.53	-3255.83	-608.08	0.00	389669.28	721932.54	N 32 4 11.78	W 103 45 1.11
	13400.00	90.00	180.00	10239.00	3405.73	-3355.83	-608.08	0.00	389569.29	721932.54	N 32 4 10.79	W 103 45 1.11
	13500.00	90.00	180.00	10239.00	3504.93	-3455.83	-608.08	0.00	389469.29	721932.55	N 32 4 9.80	W 103 45 1.12
	13600.00	90.00	180.00	10239.00	3604.13	-3555.83	-608.08	0.00	389369.30	721932.55	N 32 4 8.81	W 103 45 1.13
	13700.00	90.00	180.00	10239.00	3703.33	-3655.83	-608.07	0.00	389269.30	721932.55	N 32 4 7.82	W 103 45 1.13
	13800.00	90.00	180.00	10239.00	3802.53	-3755.83	-608.07	0.00	389169.31	721932.55	N 32 4 6.83	W 103 45 1.14
	13900.00	90.00	180.00	10239.00	3901.74	-3855.83	-608.07	0.00	389069.32	721932.55	N 32 4 5.84	W 103 45 1.15
	14000.00	90.00	180.00	10239.00	4000.94	-3955.83	-608.07	0.00	3889			

Devon Snapping 2 State 11H Rev0 PM 06Apr15 Proposal Report

(Def Plan)

Report Date: April 09, 2015 - 05:30 PM
Client: Devon
Field: Eddy County (NAD83)
Structure / Slot: Devon Snapping "2" State 11H / Devon Snapping "2" State 11H
Well: Snapping "2" State 11H
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: Devon Snapping 2 State 11H Rev0 PM 06Apr15
Survey Date: April 06, 2015
Tort / AHD / DDI / ERD Ratio: 120.389 ° / 5251.340 ft / 5.962 / 0.513
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 4' 43.96662", W 103° 44' 53.83599"
Location Grid N/E Y/X: N 392924.930 ftUS, E 722540.590 ftUS
CRS Grid Convergence Angle: 0.3107 °
Grid Scale Factor: 0.9999467
Version / Patch: 2.7.1043.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 187.248 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: Cactus 105 RKB=28'
TVD Reference Elevation: 3319.400 ft above Mean Sea Level
Seabed / Ground Elevation: 3291.400 ft above Mean Sea Level
Magnetic Declination: 7.365 °
Total Gravity Field Strength: 998.4245mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48075.132 nT
Magnetic Dip Angle: 59.917 °
Declination Date: April 06, 2015
Magnetic Declination Model: BGGM 2014
North Reference: Grid North
Grid Convergence Used: 0.3107 °
Total Corr Mag North->Grid North: 7.0541 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL	0.00	0.00	270.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	270M
	100.00	0.00	270.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	200.00	0.00	270.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	300.00	0.00	270.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	400.00	0.00	270.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	500.00	0.00	270.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	600.00	0.00	270.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	700.00	0.00	270.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	800.00	0.00	270.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	900.00	0.00	270.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
Rustler	919.00	0.00	270.00	919.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1000.00	0.00	270.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1100.00	0.00	270.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1200.00	0.00	270.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
Salado	1269.00	0.00	270.00	1269.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1300.00	0.00	270.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1400.00	0.00	270.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1500.00	0.00	270.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1600.00	0.00	270.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1700.00	0.00	270.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1800.00	0.00	270.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	1900.00	0.00	270.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2000.00	0.00	270.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2100.00	0.00	270.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2200.00	0.00	270.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2300.00	0.00	270.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2400.00	0.00	270.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2500.00	0.00	270.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2600.00	0.00	270.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2700.00	0.00	270.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2800.00	0.00	270.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	2900.00	0.00	270.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3000.00	0.00	270.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3100.00	0.00	270.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3200.00	0.00	270.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3300.00	0.00	270.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3400.00	0.00	270.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3500.00	0.00	270.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3600.00	0.00	270.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3700.00	0.00	270.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3800.00	0.00	270.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	3900.00	0.00	270.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	4000.00	0.00	270.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
Base of Salt	4014.00	0.00	270.00	4014.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
	4100.00	0.00	270.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
Nudge to 12°	4200.00	0.00	270.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	270M
Delaware	4234.00	0.34	270.00	4234.00	0.01	0.00	-0.10	0.10	270.00	1.00	270M
Bell Canyon	4264.00	0.64	270.00	4264.00	0.05	0.00	-0.36	0.36	270.00	1.00	270M
	4300.00	1.00	270.00	4299.99	0.11	0.00	-0.87	0.87	270.00	1.00	270M
	4400.00	2.00	270.00	4399.96	0.44	0.00	-3.49	3.49	270.00	1.00	270M
	4500.00	3.00	270.00	4499.86	0.99	0.00	-7.85	7.85	270.00	1.00	270M
	4600.00	4.00	270.00	4599.68	1.76	0.00	-13.96	13.96	270.00	1.00	270M
	4700.00	5.00	270.00	4699.37	2.75	0.00	-21.80	21.80	270.00	1.00	270M
	4800.00	6.00	270.00	4798.90	3.96	0.00	-31.39	31.39	270.00	1.00	270M
	4900.00	7.00	270.00	4898.26	5.39	0.00	-42.71	42.71	270.00	1.00	270M
	5000.00	8.00	270.00	4997.40	7.04	0.00	-55.76	55.76	270.00	1.00	270M
	5100.00	9.00	270.00	5096.30	8.90	0.00	-70.54	70.54	270.00	1.00	HS
	5200.00	10.00	270.00	5194.93	10.98	0.00	-87.05	87.05	270.00	1.00	HS
Cherry Canyon	5254.95	10.55	270.00	5249.00	12.22	0.00	-96.85	96.85	270.00	1.00	HS
	5300.00	11.00	270.00	5293.26	13.28	0.00	-105.27	105.27	270.00	1.00	HS
Hold	5400.00	12.00	270.00	5391.25	15.80	0.00	-125.21	125.21	270.00	1.00	HS
	5500.00	12.00	270.00	5489.06	18.42	0.00	-146.00	146.00	270.00	0.00	HS
	5600.00	12.00	270.00	5586.88	21.04	0.00	-166.79	166.79	270.00	0.00	HS
	5700.00	12.00	270.00	5684.69	23.67	0.00	-187.58	187.58	270.00	0.00	HS
	5800.00	12.00	270.00	5782.51	26.29	0.00	-208.37	208.37	270.00	0.00	HS
	5900.00	12.00	270.00	5880.32	28.91	0.00	-229.16	229.16	270.00	0.00	HS
	6000.00	12.00	270.00	5978.13	31.54	0.00	-249.95	249.95	270.00	0.00	HS
	6100.00	12.00	270.00	6075.95	34.16	0.00	-270.74	270.74	270.00	0.00	HS

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Drop to Vertical	6200.00	12.00	270.00	6173.76	36.78	0.00	-291.53	291.53	270.00	0.00	HS
	6300.00	12.00	270.00	6271.58	39.41	0.00	-312.33	312.33	270.00	0.00	LS
	6400.00	11.00	270.00	6369.57	41.92	0.00	-332.26	332.26	270.00	1.00	LS
Brushy Canyon	6500.00	10.00	270.00	6467.89	44.22	0.00	-350.49	350.49	270.00	1.00	LS
	6600.00	9.00	270.00	6566.52	46.30	0.00	-366.99	366.99	270.00	1.00	LS
	6622.75	8.77	270.00	6589.00	46.75	0.00	-370.50	370.50	270.00	1.00	LS
	6700.00	8.00	270.00	6665.42	48.17	0.00	-381.77	381.77	270.00	1.00	LS
	6800.00	7.00	270.00	6764.57	49.82	0.00	-394.82	394.82	270.00	1.00	LS
	6900.00	6.00	270.00	6863.92	51.24	0.00	-406.14	406.14	270.00	1.00	LS
	7000.00	5.00	270.00	6963.46	52.45	0.00	-415.73	415.73	270.00	1.00	LS
	7100.00	4.00	270.00	7063.15	53.44	0.00	-423.57	423.57	270.00	1.00	270M
	7200.00	3.00	270.00	7162.96	54.21	0.00	-429.68	429.68	270.00	1.00	270M
	7300.00	2.00	270.00	7262.87	54.76	0.00	-434.04	434.04	270.00	1.00	270M
Hold	7400.00	1.00	270.00	7362.83	55.09	0.00	-436.66	436.66	270.00	1.00	270M
	7500.00	0.00	270.00	7462.83	55.20	0.00	-437.53	437.53	270.00	1.00	270M
	7600.00	0.00	270.00	7562.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	7700.00	0.00	270.00	7662.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	7800.00	0.00	270.00	7762.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	7900.00	0.00	270.00	7862.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8000.00	0.00	270.00	7962.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8100.00	0.00	270.00	8062.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8200.00	0.00	270.00	8162.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8300.00	0.00	270.00	8262.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
1st BSPG Lime	8301.17	0.00	270.00	8264.00	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8400.00	0.00	270.00	8362.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8500.00	0.00	270.00	8462.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8600.00	0.00	270.00	8562.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8700.00	0.00	270.00	8662.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8800.00	0.00	270.00	8762.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	8900.00	0.00	270.00	8862.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	9000.00	0.00	270.00	8962.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	9100.00	0.00	270.00	9062.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	9200.00	0.00	270.00	9162.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	1st BSPG Sand	9206.17	0.00	270.00	9169.00	55.20	0.00	-437.53	437.53	270.00	0.00
	9300.00	0.00	270.00	9262.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	9400.00	0.00	270.00	9362.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	9500.00	0.00	270.00	9462.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	2nd BSPG Lime	9526.17	0.00	270.00	9489.00	55.20	0.00	-437.53	437.53	270.00	0.00
	9600.00	0.00	270.00	9562.83	55.20	0.00	-437.53	437.53	270.00	0.00	270M
	KOP Build w/h 10" DLS	9676.10	0.00	270.00	9638.93	55.20	0.00	-437.53	437.53	270.00	0.00
	9700.00	2.39	208.05	9662.82	55.67	-0.44	-437.76	437.77	269.94	10.00	208.05M
	9800.00	12.39	208.05	9761.86	67.68	-11.78	-443.81	443.96	268.48	10.00	HS
2nd BSPG Sand	9880.48	20.44	208.05	9839.00	88.92	-31.83	-454.49	455.60	265.99	10.00	HS
EOC	9900.00	22.39	208.05	9857.17	95.58	-38.12	-457.84	459.43	265.24	10.00	HS
	10000.00	32.39	208.05	9945.85	138.53	-78.67	-479.45	485.86	260.68	10.00	HS
	10100.00	42.39	208.05	10025.20	195.23	-132.19	-507.97	524.89	255.41	10.00	HS
	10126.10	45.00	208.05	10044.07	212.08	-148.10	-516.44	537.26	254.00	10.00	37L
	10200.00	51.05	202.34	10093.49	264.32	-197.81	-539.69	574.80	249.87	10.00	33.17L
	10300.00	59.60	196.01	10150.36	344.70	-275.43	-566.43	629.84	244.07	10.00	29.56L
	10400.00	68.41	190.73	10194.18	433.95	-362.78	-587.03	690.09	238.28	10.00	27.24L
	10500.00	77.36	186.06	10223.60	529.37	-457.22	-600.87	755.04	232.73	10.00	25.86L
	10600.00	86.38	181.70	10237.73	628.07	-555.86	-607.51	823.44	227.54	10.00	25.24L
	10639.98	90.00	180.00	10239.00	667.77	-595.80	-608.11	851.34	225.59	10.00	HS
	10700.00	90.00	180.00	10239.00	727.31	-655.83	-608.11	894.37	222.84	0.00	HS
	10800.00	90.00	180.00	10239.00	826.51	-755.83	-608.11	970.09	218.82	0.00	HS
	10900.00	90.00	180.00	10239.00	925.71	-855.83	-608.11	1049.87	215.40	0.00	HS
	11000.00	90.00	180.00	10239.00	1024.92	-955.83	-608.11	1132.87	212.46	0.00	HS
	11100.00	90.00	180.00	10239.00	1124.12	-1055.83	-608.11	1218.43	209.94	0.00	HS
	11200.00	90.00	180.00	10239.00	1223.32	-1155.83	-608.11	1306.04	207.75	0.00	HS
	11300.00	90.00	180.00	10239.00	1322.52	-1255.83	-608.11	1395.31	205.84	0.00	HS
	11400.00	90.00	180.00	10239.00	1421.72	-1355.83	-608.11	1485.96	204.16	0.00	HS
	11500.00	90.00	180.00	10239.00	1520.92	-1455.83	-608.11	1577.73	202.67	0.00	HS
	11600.00	90.00	180.00	10239.00	1620.12	-1555.83	-608.10	1670.45	201.35	0.00	HS
	11700.00	90.00	180.00	10239.00	1719.32	-1655.83	-608.10	1763.96	200.17	0.00	HS
	11800.00	90.00	180.00	10239.00	1818.52	-1755.83	-608.10	1858.15	199.10	0.00	HS
	11900.00	90.00	180.00	10239.00	1917.72	-1855.83	-608.10	1952.92	198.14	0.00	HS
	12000.00	90.00	180.00	10239.00	2016.92	-1955.83	-608.10	2048.18	197.27	0.00	HS
	12100.00	90.00	180.00	10239.00	2116.12	-2055.83	-608.10	2143.88	196.48	0.00	HS
	12200.00	90.00	180.00	10239.00	2215.32	-2155.83	-608.10	2239.95	195.75	0.00	HS
	12300.00	90.00	180.00	10239.00	2314.53	-2255.83	-608.10	2336.35	195.09	0.00	HS
	12400.00	90.00	180.00	10239.00	2413.73	-2355.83	-608.10	2433.04	194.47	0.00	HS
	12500.00	90.00	180.00	10239.00	2512.93	-2455.83	-608.10	2529.99	193.91	0.00	HS
	12600.00	90.00	180.00	10239.00	2612.13	-2555.83	-608.09	2627.17	193.38	0.00	HS
	12700.00	90.00	180.00	10239.00	2711.33	-2655.83	-608.09	2724.55	192.90	0.00	HS
	12800.00	90.00	180.00	10239.00	2810.53	-2755.83	-608.09	2822.12	192.44	0.00	HS
	12900.00	90.00	180.00	10239.00	2909.73	-2855.83	-608.09	2919.85	192.02	0.00	HS
	13000.00	90.00	180.00	10239.00	3008.93	-2955.83	-608.09	3017.73	191.62	0.00	HS
	13100.00	90.00	180.00	10239.00	3108.13	-3055.83	-608.09	3115.74	191.25	0.00	HS
	13200.00	90.00	180.00	10239.00	3207.33	-3155.83	-608.08	3213.88	190.91	0.00	HS
	13300.00	90.00	180.00	10239.00	3306.53	-3255.83	-608.08	3312.13	190.58	0.00	HS
	13400.00	90.00	180.00	10239.00	3405.73	-3355.83	-608.08	3410.48	190.27	0.00	HS
	13500.00	90.00	180.00	10239.00	3504.93	-3455.83	-608.08	3508.92	189.98	0.00	HS
	13600.00	90.00	180.00	1020							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (%/100ft)	TF (°)
	14700.00	90.00	180.00	10239.00	4695.34	-4655.83	-608.05	4695.37	187.44	0.00	HS
	14800.00	90.00	180.00	10239.00	4794.54	-4755.83	-608.04	4794.54	187.29	0.00	HS
Snapping 2 State 11H PBHL	14824.85	90.00	180.00	10239.00	4819.19	-4780.67	-608.04	4819.19	187.25	0.00	

Survey Type: Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	28.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / Devon Snapping 2 State 11H Rev0 PM
	1	28.000	14824.846	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / Devon Snapping 2 State 11H Rev0 PM