

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 August 1, 2011

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

WELL API NO. 30-015-41296
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name TRANQUIL 13 STATE
8. Well Number 4H
9. OGRID Number 6137
10. Pool name or Wildcat HAY HOLLOW; BONE SPRING NORTH

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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Devon Energy Production Company, L.P.	
3. Address of Operator 333 West Sheridan Ave. Oklahoma City, Oklahoma 73102-5010 (405) 552-7848	
4. Well Location Unit Letter <u>D</u> : <u>330</u> feet from the <u>N</u> line and <u>660</u> feet from the <u>W</u> line Section <u>13</u> Township <u>25S</u> Range <u>27E</u> NMPM Eddy County New Mexico	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3095.3'	

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 ☐

SUBSEQUENT REPORT OF:

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

OTHER: Add Pilot Hole ☒

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 approval to change the approved APD as follows:

- Add Pilot Hole; to be drilled to a depth of approx. 8,250' MD/TVD.
- Change production casing to 7" x 5-1/2" mixed string.
- Change landing point from 12,285' to 12,219'.

See attached revised Drill Plan and Directional Survey.

SECOND SUBMITTAL

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

SIGNATURE [Signature] TITLE Regulatory Specialist DATE 3/5/2015

Type or print name David H. Cook E-mail address: david.cook@dvn.com PHONE: (405) 552-7848

For State Use Only

APPROVED BY: [Signature] TITLE Dist. Engineer DATE 3/12/2015
Conditions of Approval (if any):

Tranquil 13 State 4H – APD DRILLING PLAN
SKS 4-19-2013

Casing Program:

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17-1/2"	0 - 650	13-3/8"	0 - 650	48#	BTC	H-40
12-1/4"	650 - 2320	9-5/8"	0 - 2320	36#	LTC	J-55
8-3/4"	2320 - 7150	5-1/2"	0 - 7150	29#	BTC	P-110
8-1/2"	7150 - 12219	5-1/2"	7150 - 12219	17#	BTC	P-110

Note: There will be a pilot hole drilled to 8,250' MD/TVD

Mud Program:

Depth	Mud Wt.	Visc.	Fluid Loss	Type System (Fluid)
0 - 650	8.4 – 9.0	30 – 34	N/C	FW
650 - 2320	9.8 – 10.0	28 – 32	N/C	Brine
2320 - 12219	8.6 – 9.0	28 – 32	N/C	FW

Pressure Control Equipment:

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

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

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.

Tranquil 13 State 4H

Cementing Program (cement volumes based on 100% excess Surface, 50% excess Intermediate and at least 25% excess Production.)

13-3/8" Surface	Tail: 710 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Poly-E-Flake + 63.1% Fresh Water, 14.8 ppg Yield: 1.35 cf/sk
9 5/8" Intermediate	Lead: 660 sacks (65:35) Class C Cement:Poz (Fly Ash): + 5% bwow Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 6% bwoc Bentonite + 70.9% Fresh Water, 12.9 ppg Yield: 1.87 cf/sk Tail: 260 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.5% Water, 14.8 ppg Yield: 1.33 cf/sk
Pilot Hole/Abandonment	Tail: 475 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg Yield: 1.198 cf/sk
5-1/2" X 7" Production	Lead: 480 sacks (65:35) Class H Cement:Poz (Fly Ash) + 6% bwoc Bentonite + 0.125 lbs/sack Poly-E-Flake + 0.1% bwoc HR-601 + 74.1% Fresh Water, 12.5 ppg Yield: 3.32 cf/sk Tail: 1075 sacks (50:50) Class H Cement:Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg Yield: 1.22 cf/sk

TOC for All Strings:

Surface:	0
Intermediate:	0
Production:	2120 ft

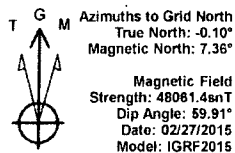
ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

devon

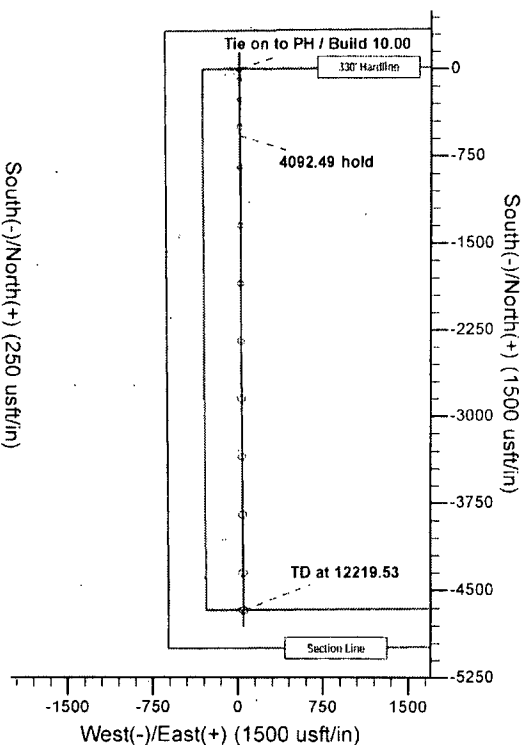
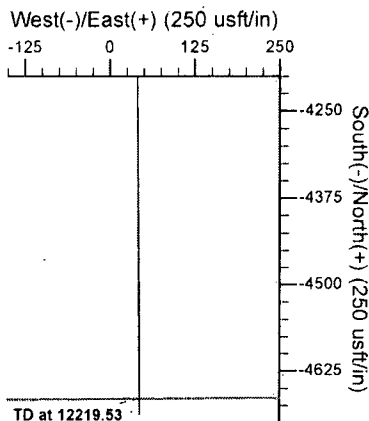
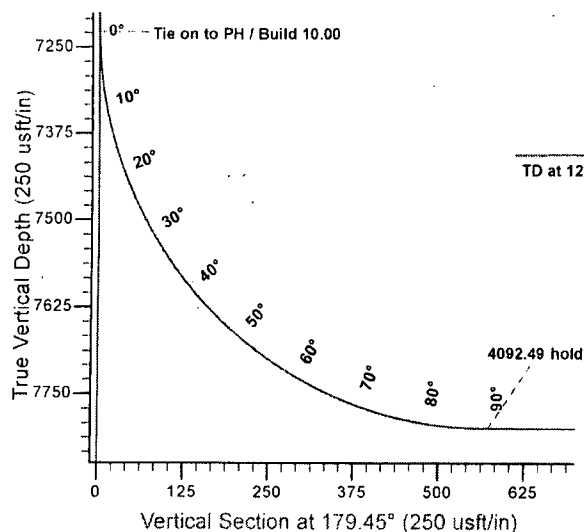
Project: Eddy Co., NM
Site: Sec.13-T25S-R27E
Well: Tranquil 13 State 4H
Wellbore: Lateral
Design: Design #1
Lat: 32° 8' 10.967 N
Long: 104° 9' 1.132 W
GL: 3095.30
KB: GL+25'KB @ 3120.30usft



Precision
Directional Services



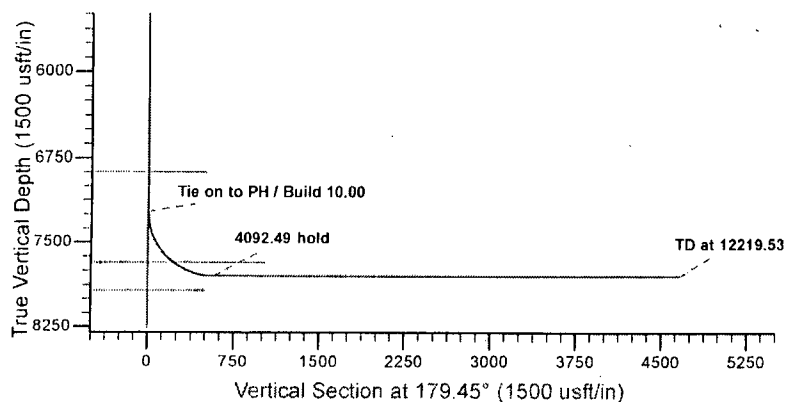
CASING DETAILS:
No casing data is available



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
6868.00	6868.00	1st BSPG Sand
7678.00	7746.17	2nd BSPG Sand

LEGEND

- Tranquil 13 State 4H, Pilot Hole, Design #1 V0
- Design #1



WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
4H Surface	0.00	0.00	0.00	32° 8' 10.967 N	104° 9' 1.132 W	
4H Lateral PBHL	7800.00	-4665.23	44.85	32° 7' 24.799 N	104° 9' 0.703 W	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
7227.04	0.00	0.00	7227.04	0.00	0.00	0.00	0.00	0.00	Tie on to PH / Build 10.00
8127.04	90.00	179.45	7800.00	-572.93	5.51	10.00	179.45	572.96	4092.49 hold
12219.53	90.00	179.45	7800.00	-4665.23	44.85	0.00	0.00	4665.45	TD at 12219.53



Precision
Directional Services

Devon Energy

Eddy Co., NM

Sec.13-T25S-R27E

Tranquil 13 State 4H

Lateral

Plan: Design #1

Standard Planning Report

27 February, 2015


devon

Database:	EDM	Local Co-ordinate Reference:	Well: Tranquil 13 State 4H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3120.30usft
Project:	Eddy Co., NM	MD Reference:	GL+25'KB @ 3120.30usft
Site:	Sec.13-T25S-R27E	North Reference:	Grid
Well:	Tranquil 13 State 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Design #1		

Project:	Eddy Co., NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Sec.13-T25S-R27E		
Site Position:		Northing:	413,398.80 usft
From:	Map	Easting:	597,987.05 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 10.967 N
		Longitude:	104° 9' 1.132 W
		Grid Convergence:	0.10 °

Well	Tranquil 13 State 4H					
Well Position	+N/-S	0.00 usft	Northing:	413,398.80 usft	Latitude:	32° 8' 10.967 N
	+E/-W	0.00 usft	Easting:	597,987.05 usft	Longitude:	104° 9' 1.132 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,095.30 usft	

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (mT)
	IGRF2015	02/27/15	7.46	59.91	48,061

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	7,227.04
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	179.45	

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)	(°)	
7,227.04	0.00	0.00	7,227.04	0.00	0.00	0.00	0.00	0.00	0.00	
8,127.04	90.00	179.45	7,800.00	-572.93	5.51	10.00	10.00	0.00	179.45	4H Lateral PBHL
12,219.53	90.00	179.45	7,800.00	-4,665.23	44.85	0.00	0.00	0.00	0.00	4H Lateral PBHL

Database:	EDM	Local Co-ordinate Reference:	Well: Tranquil 13 State 4H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3120.30usft
Project:	Eddy Co., NM	MD Reference:	GL+25'KB @ 3120.30usft
Site:	Sec 13-T25S-R27E	North Reference:	Grid
Well:	Tranquil 13 State 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Design #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
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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
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
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
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
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well: Tranquil-13 State 4H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3120.30usft
Project:	Eddy Co. NM	MD Reference:	GL+25'KB @ 3120.30usft
Site:	Sec 13-T25S-R27E	North Reference:	Grid
Well:	Tranquil-13 State 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Design #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)
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
6,600.00	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
7,227.04	0.00	0.00	7,227.04	0.00	0.00	0.00	0.00	0.00	0.00
Tie on to PH / Build: 10.00									
7,250.00	2.30	179.45	7,249.99	-0.46	0.00	0.46	10.00	10.00	0.00
7,300.00	7.30	179.45	7,299.80	-4.64	0.04	4.64	10.00	10.00	0.00
7,350.00	12.30	179.45	7,349.05	-13.14	0.13	13.14	10.00	10.00	0.00
7,400.00	17.30	179.45	7,397.39	-25.91	0.25	25.91	10.00	10.00	0.00
7,450.00	22.30	179.45	7,444.42	-42.83	0.41	42.84	10.00	10.00	0.00
7,500.00	27.30	179.45	7,489.79	-63.80	0.61	63.80	10.00	10.00	0.00
7,550.00	32.30	179.45	7,533.17	-88.63	0.85	88.64	10.00	10.00	0.00
7,600.00	37.30	179.45	7,574.21	-117.16	1.13	117.16	10.00	10.00	0.00
7,650.00	42.30	179.45	7,612.62	-149.15	1.43	149.15	10.00	10.00	0.00
7,700.00	47.30	179.45	7,648.09	-184.36	1.77	184.37	10.00	10.00	0.00
7,750.00	52.30	179.45	7,680.35	-222.54	2.14	222.55	10.00	10.00	0.00
7,800.00	57.30	179.45	7,709.17	-263.38	2.53	263.39	10.00	10.00	0.00
7,850.00	62.30	179.45	7,734.31	-306.57	2.95	306.59	10.00	10.00	0.00
7,900.00	67.30	179.45	7,755.60	-351.80	3.38	351.81	10.00	10.00	0.00
7,950.00	72.30	179.45	7,772.86	-398.70	3.83	398.72	10.00	10.00	0.00
8,000.00	77.30	179.45	7,785.97	-446.94	4.30	446.96	10.00	10.00	0.00
8,050.00	82.30	179.45	7,794.83	-496.13	4.77	496.15	10.00	10.00	0.00
8,100.00	87.30	179.45	7,799.36	-545.90	5.25	545.93	10.00	10.00	0.00
8,127.04	90.00	179.45	7,800.00	-572.93	5.51	572.96	10.00	10.00	0.00
4092.49 hold									
8,200.00	90.00	179.45	7,800.00	-645.89	6.21	645.92	0.00	0.00	0.00
8,300.00	90.00	179.45	7,800.00	-745.88	7.17	745.92	0.00	0.00	0.00
8,400.00	90.00	179.45	7,800.00	-845.88	8.13	845.92	0.00	0.00	0.00
8,500.00	90.00	179.45	7,800.00	-945.87	9.09	945.92	0.00	0.00	0.00
8,600.00	90.00	179.45	7,800.00	-1,045.87	10.05	1,045.92	0.00	0.00	0.00
8,700.00	90.00	179.45	7,800.00	-1,145.86	11.02	1,145.92	0.00	0.00	0.00
8,800.00	90.00	179.45	7,800.00	-1,245.86	11.98	1,245.92	0.00	0.00	0.00
8,900.00	90.00	179.45	7,800.00	-1,345.86	12.94	1,345.92	0.00	0.00	0.00
9,000.00	90.00	179.45	7,800.00	-1,445.85	13.90	1,445.92	0.00	0.00	0.00
9,100.00	90.00	179.45	7,800.00	-1,545.85	14.86	1,545.92	0.00	0.00	0.00
9,200.00	90.00	179.45	7,800.00	-1,645.84	15.82	1,645.92	0.00	0.00	0.00
9,300.00	90.00	179.45	7,800.00	-1,745.84	16.78	1,745.92	0.00	0.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well Tranquil 13 State 4H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3120.30usft
Project:	Eddy Co. NM	MD Reference:	GL+25'KB @ 3120.30usft
Site:	Sec 13-T25S-R27E	North Reference:	Grid
Well:	Tranquil 13 State 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Design #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)	
9,400.00	90.00	179.45	7,800.00	-1,845.83	17.75	1,845.92	0.00	0.00	0.00	
9,500.00	90.00	179.45	7,800.00	-1,945.83	18.71	1,945.92	0.00	0.00	0.00	
9,600.00	90.00	179.45	7,800.00	-2,045.82	19.67	2,045.92	0.00	0.00	0.00	
9,700.00	90.00	179.45	7,800.00	-2,145.82	20.63	2,145.92	0.00	0.00	0.00	
9,800.00	90.00	179.45	7,800.00	-2,245.81	21.59	2,245.92	0.00	0.00	0.00	
9,900.00	90.00	179.45	7,800.00	-2,345.81	22.55	2,345.92	0.00	0.00	0.00	
10,000.00	90.00	179.45	7,800.00	-2,445.80	23.51	2,445.92	0.00	0.00	0.00	
10,100.00	90.00	179.45	7,800.00	-2,545.80	24.47	2,545.92	0.00	0.00	0.00	
10,200.00	90.00	179.45	7,800.00	-2,645.80	25.44	2,645.92	0.00	0.00	0.00	
10,300.00	90.00	179.45	7,800.00	-2,745.79	26.40	2,745.92	0.00	0.00	0.00	
10,400.00	90.00	179.45	7,800.00	-2,845.79	27.36	2,845.92	0.00	0.00	0.00	
10,500.00	90.00	179.45	7,800.00	-2,945.78	28.32	2,945.92	0.00	0.00	0.00	
10,600.00	90.00	179.45	7,800.00	-3,045.78	29.28	3,045.92	0.00	0.00	0.00	
10,700.00	90.00	179.45	7,800.00	-3,145.77	30.24	3,145.92	0.00	0.00	0.00	
10,800.00	90.00	179.45	7,800.00	-3,245.77	31.20	3,245.92	0.00	0.00	0.00	
10,900.00	90.00	179.45	7,800.00	-3,345.76	32.17	3,345.92	0.00	0.00	0.00	
11,000.00	90.00	179.45	7,800.00	-3,445.76	33.13	3,445.92	0.00	0.00	0.00	
11,100.00	90.00	179.45	7,800.00	-3,545.75	34.09	3,545.92	0.00	0.00	0.00	
11,200.00	90.00	179.45	7,800.00	-3,645.75	35.05	3,645.92	0.00	0.00	0.00	
11,300.00	90.00	179.45	7,800.00	-3,745.74	36.01	3,745.92	0.00	0.00	0.00	
11,400.00	90.00	179.45	7,800.00	-3,845.74	36.97	3,845.92	0.00	0.00	0.00	
11,500.00	90.00	179.45	7,800.00	-3,945.74	37.93	3,945.92	0.00	0.00	0.00	
11,600.00	90.00	179.45	7,800.00	-4,045.73	38.89	4,045.92	0.00	0.00	0.00	
11,700.00	90.00	179.45	7,800.00	-4,145.73	39.86	4,145.92	0.00	0.00	0.00	
11,800.00	90.00	179.45	7,800.00	-4,245.72	40.82	4,245.92	0.00	0.00	0.00	
11,900.00	90.00	179.45	7,800.00	-4,345.72	41.78	4,345.92	0.00	0.00	0.00	
12,000.00	90.00	179.45	7,800.00	-4,445.71	42.74	4,445.92	0.00	0.00	0.00	
12,100.00	90.00	179.45	7,800.00	-4,545.71	43.70	4,545.92	0.00	0.00	0.00	
12,200.00	90.00	179.45	7,800.00	-4,645.70	44.66	4,645.92	0.00	0.00	0.00	
12,219.53	90.00	179.45	7,800.00	-4,665.23	44.85	4,665.45	0.00	0.00	0.00	
TD at 12219.53										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
4H Surface	0.00	0.00	0.00	0.00	0.00	413,398.80	597,987.05	32° 8' 10.967 N		104° 9' 1.132 W
- plan hits target center										
- Point										
4H Lateral PBHL	0.00	0.00	7,800.00	-4,665.23	44.85	408,733.57	598,031.90	32° 7' 24.799 N		104° 9' 0.703 W
- plan hits target center										
- Point										

Formations							
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)		
6,868.00	6,868.00	1st BSPG Sand		0.00			
7,746.17	7,678.00	2nd BSPG Sand		0.00			

Database:	EDM	Local Co-ordinate Reference:	Well: Tranquil 13 State 4H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3120.30usft
Project:	Eddy Co. NM	MD Reference:	GL+25'KB @ 3120.30usft
Site:	Sec 13-T25S-R27E	North Reference:	Grid
Well:	Tranquil 13 State 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,227.04	7,227.04	0.00	0.00	Tie on to PH / Build 10.00
8,127.04	7,800.00	-572.93	5.51	4092.49 hold
12,219.53	7,800.00	-4,665.23	44.85	TD at 12219.53