OCD-ARTESIA

Form 3160 -3 (February 2005)	OMB No	APPROVED 1004-0137 March 31, 200	7 <i>EA</i> 1243				
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	5 Lease Serial No. USA NM 98173						
	APPLICATION FOR PERMIT TO DRILL OR REENTER						
la. Type of work DRILL REENTH	7 If Unit or CA Agree	ement, Nam	e and No.				
lb. Type of Well Oil Well Gas Well Other	8. Lease Name and V Beryl 33 F		[38884]				
2. Name of Operator Devon Energy Production Co., LP	6137		9 API Well No.	<u>-</u> 2	39790		
3a Address 20 North Broadway OKC, OK 73102	3b. Phone No. (include area code) (405)-552-7802		10. Field and Pool, or E	Exploratory SAU	Bone Spr		
4. Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location of Well (Report location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location clearly and in accordance with an At surface SWSW 50' FSL & 400' FWL Location clearly and accordance with an At surface SWSW 50' FSL & 400' FWL Location clearly and accordance with a surface swift and acco	O'M GTANDAR	J	11. Sec., T R M or Bl Sec 33 T	lk an d S urve 19S-R29E	ey or Area C 496		
At proposed prod. zone NWNW 330' FNL & 400' FWL I	NOW, TOCK		12 County or Parish		3. State		
14. Distance in miles and direction from nearest town or post office* Approximately 14 miles northeast of Carlsbad, NM.			Eddy		NM		
Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig unit line, if any) 50'	tance from proposed* 16 No of acres in lease 17 Space ation to nearest perty or lease line, ft.						
18 Distance from proposed location*	19 Proposed Depth	20 BLM/	/BIA Bond No. on file				
to nearest well, drilling, completed, applied for, on this lease, ft see plat	MTVD <i>,7895</i> ' 12638' MD	РНТ	FD: 8155' CO-1104				
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3302.6' GL	22 Approximate date work will sta 09/01/2011	rt*	23. Estimated duration 45 days				
	24. Attachments						
The following, completed in accordance with the requirements of Onshor 1 Well plat certified by a registered surveyor 2 A Drilling Plan. 3 A Surface Use Plan (if the location is on National Forest System SUPO must be fried with the appropriate Forest Service Office)	4 Bond to cover t Item 20 above) Lands, the 5 Operator certifi	he operatio	us form. ons unless covered by an formation and/or plans as	, "	·		
25. Signature	Name (Printed/Typed) Stephanie A. Ysasa	ga		Date 08/15	/2011		
Title Sy. Staff Engineering Technician							
Approved by (Signature) James A. Arnos	Name (Printed/Typed)			Date DEC	1 4 2011		
Title FIELD MANAGER	BAD FIE	ELD OFFICE					
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equitable title to those righ APPRO	ts in the sub VAL F	OR TWO YEAR	Rit Sthe ap	plicant to		
Title 18 USC Section 1001 and Title 43 U.S.C. Section 1212, make it a citates any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and to any matter within its jurisdiction	willfully to n	nake to any department o	r agency of	the United		

*(Instructions on page 2)

Capitan Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL



Operators Representative:

The Devon Energy Production Company, L.P. representatives responsible for ensuring compliance of the surface use plan are listed below.

Steven Jones Operations Engineer Advisor Don Mayberry Superintendent

Devon Energy Production Company, L.P. 20 North Broadway, Suite 1500 Oklahoma City, OK 73102-8260

Devon Energy Production Company, L.P. Post Office Box 250 Artesia, NM 88211-0250

(405) 552-7994 (office) (405) 596-8041 (cell)

(505) 748-0164 (office) (505) 748-5235 (cell)

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Devon Energy Production Company, L.P. am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

I hereby also certify that I, or Devon Energy Production Company, L.P. have made a good faith effort to provide the surface owner with a copy of the Surface Use Plan of Operations and any Conditions of Approval that are attached to the APD.

Executed this _15th/day of /August/_, 2011.

Printed Name: Stephanie A. //sasaga /

Signed Name:

Position Title: Sr./Staff Engineering/Technician Address: 20 North Broadway, OK QOK 73102

Telephone: (405)-552-7802

Field Representative (if not above signatory): Don Mayberry (see above)

Address (if different from above): Telephone (if different from above):

E-mail (optional):

Form 3160[£]5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

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

NMNM98173
6 If Indian, Allottee or Tribe Name

5. Lease Serial No

SUBMIT IN TRI	7. If Unit or CA/Agreement, Name and/or No					
1. Type of Well					8. Well Name and No.	
Oil Well Gas Well Oth	ner ·				BERYL 33 FEDEI	RAL 1H
Name of Operator DEVON ENERGY PRODUCT	9. API Well No.					
3a. Address 20 NORTH BROADWAY SUI OKLAHOMA CITY, OK 73102	e)	10 Field and Pool, or HACKBERRY	Exploratory			
4. Location of Well (Footage, Sec., 7	., R., M, or Survey Description)				11 County or Parish,	and State
Sec 33 T19S R29E SWSW L	ot M 50FSL 400FWL				EDDY COUNTY	′, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO I	NDICATE N	IATURE OF	NOTICE, RE	PORT, OR OTHE	R DATA
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION		
Notice of Intent	□ Acidize	Deepe	n	□ Producti	on (Start/Resume)	☐ Water Shut-Off
<u> </u>	Alter Casing	☐ Fractu	re Treat	Reclama	tion	☐ Well Integrity
☐ Subsequent Report	Casing Repair	□ New C	Construction	Recompl	ete	Other Change to Original A
Final Abandonment Notice	Change Plans	Plug a	nd Abandon	Tempora	rily Abandon	Change to Original A PD
_	Convert to Injection	Plug B	ack	☐ Water D	isposal	10
Devon Energy Production Co, 320 proration unit (attached is Thank you	the C102).	hange the p	roration unit fr	om 160 to a V	N/2	
14. Thereby certify that the foregoing is Com	true and correct. Electronic Submission #121 For DEVON ENERGY F mitted to AFMSS for process	PRODUCT (OI	I CO LP, sent	to the Carlsba	ıd	
Name(Printed/Typed) MELANIE	A CRAWFORD	T	itle REGUL	ATORY ANA	LYST	
Signature (Electronic S			ate 10/24/2			
	THIS SPACE FOR	FEDERAL	OR STATE	OFFICE US	E	
Approved By James (? Bus In		FIEL!	MANAGER	,	12-14-1(Date
Conditions of approval, if any, are attached ertify that the applicant holds legal or equ which would entitle the applicant to condu	itable title to those rights in the sul	t warrant or bject lease	GARLSBAC Office	FIELD OFFI	CE	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	USC Section 1212, make it a crimitatements or representations as to a	me for any pers any matter with	on knowingly and	d willfully to ma	ke to any department or	agency of the United

District I 1625 N. French Dr., Hobbs, NN 88240 District II 1301 W. Grund Avenue, Arnesia, NM 88210 District III 1000 Rio Bratos Rd., Artec, NM 87410

1220 S. St. Francis Dt., Santa Fe, NM 87505

District IV

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

Form C-102 Revised October 15,2009 Submit one copy to appropriate District Office

☐ \MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-0	API Numbe	39 19	٥	496	22	Parku	sau 4 L	Pone Spi	-Ma	
Property Nazoc 37 38984 BERYL "33" FEDERAL									Heli Vanher 114	
OGRID	No	O Operator Name							"Flevation	
6137			DEV	ON ENEF	RGY PRODUC	CTION COMPA	NY, L.P.		3302.6	
" Surface Location .										
I I, or lot no	Section	Lownship	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
M	33	19.5	29 F		50	SOUTH	406	TERT	EDDV	

	M	33	195	29 E		50	SOUTH	400	WEST	EDDY		
•	Bottom Hole Location If Different From Surface											
	UL or for no	Section	Imanship	Range	l ot ldu	Feet from the	North/South line	Leet from the	Last@er line	County		
	D	33	19 S	29 E		330	NORTH	400	WEST	EDDY		
	Dedicated teres Joint of Infill Consolidation Code Order No.											
į	320					name yan ^{a sambakila} ili ka nanganya da ayan, e Antonisi ina Mantos	Val alabanana					

No allowable will be assigned to this completion until all interests have been consoridated or a non-standard unit has been approved by the division.

BCTTOM OF HOLE	BOTTOM OF HOLE LAT. = 32.92323" LONG = 104.987121' NMSP EAST (FT) N = 590694.75 E = 617138.42	- NE CORREP SEC. 33 LAT = 52.624474* LONG = 104.071309 NMSP EAST (FT) N = 591012.00 F = 622007.00	*** OPERATOR CERTIFICATION Then his certify must the information and the comes are and comment to the news of must be along and trained and then improve must an other incomes which must be a rule as aliminate matery in the kind including the provision from matery because of the second mass and to work the to, we a private associated which masses of the his must all working allowed an incidence of the distribution of compulsions produce edge the relative energy to the distribution.
NW CORNEF SEC 3 LAT = 32 624546 LOVE = 104 088413 NMSP EAST (*1) N = 581025.79 E = 618737.99			Penned Saire Melanie Crawford Penned Saire Melanie Crawford "SLRVEYOR CERTIFICATION I hereby cerup dua the well decenion shown on this plut was plotted from freed both for proceedings were yes made from me or finder in superiod way, and that the same extrue and correct to the first of in belief.
SW CORNER SEC 3: LAT = 32 5:0038* LONG. = 104 088440 NMSF EAST IFT; N = 585746.40 F = 616743.55 SURFACE LOCATION	nature 7 act annual a	SE CORNER SEC 33 LAT = 32.609956 LONG = 104071305 NMSP EAST (FT) N = 565729 22 E = 62202104	Signature and Sed of Protectional Surveyor Certificate Number MINON F TAR 200 F O PLS 12797 SCRVEY NO 507

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Rd., Aztec, NM 87410
<u>District IJ</u>

1220 S. St. Francis Dr., Santa Fe, NM 87505

Dedicated Acres

160

APL Numbers ACX

Joint or Infill

Consolidation Code

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

Form C-102 Revised October 15,2009 Submit one copy to appropriate District Office

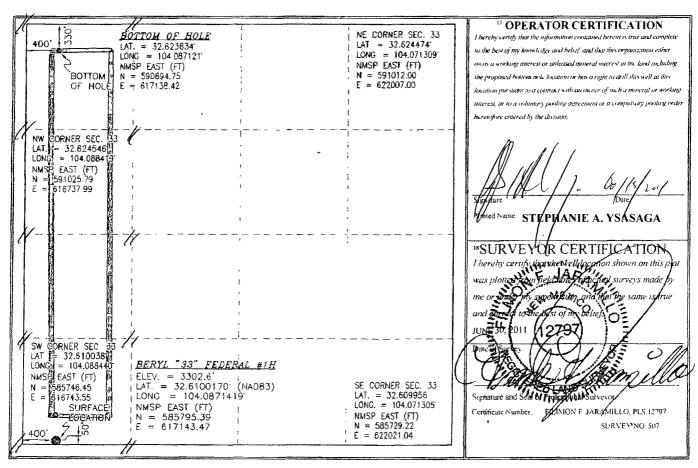
☐ AMENDED REPORT

VELL LOCATION	AND ACREAGE	DEDICATION PLAT

SDDI	<u>5 ^ 3</u>	1170	17	76/	Property	Juite W	000	are suit	110		
3898	Code			Well Number 1H							
	OGRID No. ODEVON ENERGY PRODUCTION COMPANY, L.P.										
6131	'			3302.6							
					" Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
M	33	19 S	29 E		50	SOUTH	400	WEST	EDDY		
" Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Id n	Feet from the	North/South line	Feet from the	East/West line	County		
Ð	33	198	29 E		330	NORTH	400	WEST	EDDY		

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.

Order No.



PENETRATION POINT: 330' FNL & 400' FWL



PRODUCING AREA



DRILLING PROGRAM

Devon Energy Production Company, LP

Beryl 33 Federal 1H

Surface Location: 50' FSL & 400' FWL, Unit M, Sec 33 T19S R29E, Eddy, NM Bottom hole Location: 330' FNL & 400' FWL, Unit D, Sec 33 T19S R29E, Eddy, NM

1. Geologic Name of Surface Formation

a. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

a.	Rustler S	urface'	Water @ ~60'
b.	Salado	440'	Barren
c.	Tansil Dolomite	1090'	Barren
d.	Yates	1235'	Oil
e.	Seven Rivers	1535'	Oil
f.	Queen	2025'	Barren
g.	San Andres	2890'	Oil
h.	Delaware	3390'	Oil
i.	Cut off Dolomite	5390'	Oil
j.	Bone Springs Lm	5415'	Oil
k.	1 st Bone Spring Ss	6915'	Oil
l.	2 nd Bone Spring Lime	7045'	Oil
	2 nd Bone Spring Ss	7650'	Oil
n.	2 nd Bone Spring Lower Ss	7935'	Oil
0.	2 nd Bone Spring Lower Ss Base	8000'	Oil
p.	3 rd Bone Springs Lm	8030'	Oil
q.	PTD (Pilot Hole)	8155'	coff
r.	Total Depth MTVI	O 7895' MD 12638'	See COP
			, 5,

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13 3/8" casing at 300" and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3300" and circulating cement to surface. The Delaware intervals will be isolated by setting 5 ½" casing to total depth and circulating cement above the base of the 9 5/8" casing. All casing is new and API approved.

3. Casing Program:

Hole Size	<u>Hole</u>	OD Csg	<u>Casing</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
	Interval		<u>Interval</u>		•	
17 1/2"	0'-300, 346	13 3/8"	0'-300'	48#	STC	H-40
12 1/4"	30 0′,-3300′, ✓	9 5/8"	0'-3300'	40#	LTC	J-55
8 3/4"	3300'-7300	5 ½"	0'-7300'	17#	LTC	HCP-110
8 3/4"	7300'- 12638'	5 ½"	7300-12638'	17#	BTC	HCP-110

NOTE: THIS WELL WILL BE DRILLED WITH A PILOT HOLE (PH)

An 8-3/4" pilot hole will be drilled to 8,155 ft and plugged back to KOP with 350 sxs, Class H, 15.6 ppg, 1.18 cf/sk cement.

Design Parameter Factors:

Casing Size	Collapse Design	Burst Design	Tension Design
	Factor	Factor	Factor
13 3/8"	1.8	4.0	7.3
9 5/8" 40# J-55 LTC	1.2	1.8	3.0
5 1/2" 17# HCP-110 LTC	1.6	2.0	1.6
5 ½" 17# HCP-110 BTC	1.6	1.9	5.2

4. Cement Program: (Cement volumes are based on at least 25% excess)

a. 13 3/8" Surface

Lead: 500 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg. **Yield**: 1.75 cf/sk

Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg. **Yield**: 1.35 cf/sk.. **TOC** @ **surface**.

b. 9 5/8" Intermediate

Lead: 1000 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg. Yield: 2.04 cf/sk

Tail: 300 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg. **Yield**: 1.37 cf/sk. **TOC** @ surface.

c. 5 ½" Production

1st Stage

Lead: 500 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg. **Yield**: 2.01 cf/sk

Tail: 1500 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg. **Yield**: 1.37 cf/sk

DV TOOL at ~5,000 ft

2nd Stage

Lead: 500 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg. **Yield**:

2.89 cf/sk

Tail: 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg. Yield: 1.37cf/sk. TOC @ 2,600 ft

TOC for All Strings:

Surface: 0'
Intermediate: 0'
Production: 2,600'

The above cement volumes could be revised pending the caliper measurement from the open hole logs. Actual cement volumes will be adjusted bases on fluid caliper and caliper log data.

5. Pressure Control Equipment:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 3M system prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked as per Onshore Order No 2. 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.

6. Proposed Mud Circulation System

0	Depth	Mud Wt.	Visc	Fluid Loss	Type System
Zel,	0' - 300'	8.4-9.0	28-3 4	NC	Fresh Water
COM	0' - 300' 300' - 3300'	9.8-10.0	28-34	NC	Brine
	3300'-12638'	8.4-9.0	28-34	NC	Fresh Water

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

7. 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 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 13 3/8" shoe until total depth is reached.

8. Logging, Coring, and Testing Program: * See COA

- a. Drill stem tests will be based on geological sample shows.
- b. If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.
- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

9. Potential Hazards:

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 3600 psi and Estimated BHT 130°. No H2S is anticipated to be encountered.

10. Anticipated Starting Date and Duration of Operations:

a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

devon

Devon Energy, Inc.

Eddy County Beryl 33 Fed #1H OH

Plan: Design #1

Pathfinder X&Y Report

22 July, 2011





Pathfinder

Pathfinder X&Y Report



Local Co-ordinate Reference: Company: Devon Energy, Inc. Well #1H Eddy County TVD Reference: KB=26' @ 3328.60usft (H&P 300) Project: KB=26 @ 3328.60 usft (H&P 300) Site: Beryl 33 Fed MD Reference: Well: #1H North Reference: Grid. Wellbore: ОН Minimum Curvature Survey Calculation Method: Design #1 EDM 5000.1 Single User Db Design: Database: Eddy County Project US State Plane 1983 Map System: System Datum: Mean Sea Level North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone Beryl 33 Fed 585,795.390 usft Northing: Latitude: 32° 36' 36.582 N Site Position: 617,143.470 usft Longitude: 104° 5' 13.720 W Мар From: Easting: 0.00 usft 13-3/16 ' **Grid Convergence:** 0.13 ° **Position Uncertainty:** Slot Radius: Well #1H 32° 36' 36.582 N **Well Position** +N/-S 0.00 usft Northing: 585,795.390 usft Latitude: Longitude: 104° 5' 13.720 W +E/-W 0.00 usft 617,143.470 usft Easting: **Ground Level:** 3.302.60 usft 0.00 usft usft **Position Uncertainty** Wellhead Elevation: Wellbore Dip Angle Field Strength Model Name Sample Date Declination ? Magnetics (nT) (°) (°). 60.48 IGRF200510 7/22/2011 7.83 48,819 Design Design #1 **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 +N/-S +E/-W Direction : Vertical Section: Depth From (TVD) (usft) (usft) (°) . (usft) 🎲 0 00 0.00 0.00 359.94 Survey Tool Program Date 7/22/2011 From: To (usft) Description ់ (usft) ៊ី Survey (Wellbore) **Tool Name** Pathfinder MWD 0.00 12,638.43 Design #1 (OH) Pathfinder





A Schlumberger Company

Company: Project:

Devon Energy, Inc. Eddy County ·

Site: Well:

Beryl 33 Fed #1H

Wellbore: ОН Design: 🛵 🛬 Design #1 Local Co-ordinate Reference: TVD Reference:

MD Reference:

North Reference: Survey Calculation Method:

Database:

Well #1H

KB=26' @ 3328.60usft (H&P 300)

Control of the Contro

KB=26 @ 3328.60usft (H&P 300) Grid•

Minimum Curvature

EDM 5000.1 Single User Db

Planned Survey

rianned Survey	The state of the s	10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	F F F WARP DX TO	रराक्षा क्रुंतिकं अर्थेक पं		THE PERSON OF THE PARTY OF THE P	The state of the s	The state of the s	THE TAXABLE PA	
MD	Înc	Azi (azimuth)	TVD.	TVDSS	N/S	E/W	V. Sec	DLeg	Northing	Easting
(usft)	(°)	(1)	(úsft) y	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(usft)
0.00	0.00	0.00	0.00	-3,328.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
100.00	0.00	0.00	100.00	-3,228.60	0 00	0.00	0.00	0.00	585,795.39	617,143.47
200.00	0.00	0.00	200.00	-3,128.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
300.00	0.00	0.00	300.00	-3,028.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
400.00	0.00	0.00	400.00	-2,928.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
500.00	0.00	0.00	500.00	-2,828.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
600.00	0.00	0.00	600.00	-2,728.60	0.00	0.00	0.00	0.00	585,795 39	617,143 47
700.00	0.00	0.00	700.00	-2,628.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
800.00	0.00	0.00	800.00	-2,528.60	0 00	0.00	0.00	0.00	585,795.39	617,143.47
900.00	0.00	0.00	900.00	-2,428.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,000.00	0.00	0.00	1,000.00	-2,328.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,100.00	0.00	0.00	1,100.00	-2,228.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,200.00	0.00	0.00	1,200.00	-2,128.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,300.00	0.00	0.00	1,300.00	-2,028.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,400.00	0.00	0.00	1,400.00	-1,928.60	0.00	0.00	0 00	0.00	585,795.39	617,143.47
1,500.00	0.00	0.00	1,500.00	-1,828.60	0.00	0.00	0.00-	0.00	585,795.39	617,143.47
1,600.00	0.00	0.00	1,600 00	-1,728.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,700.00	0.00	0.00	1,700.00	-1,628.60	0.00	0.00	0.00	0 00	585,795.39	617,143.47
1,800.00	0.00	0.00	1,800.00	-1,528.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
1,900.00	0.00	0 00	1,900 00	-1,428.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,000.00	0.00	0.00	2,000.00	-1,328.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,100.00	0.00	0.00	2,100.00	-1,228.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,200 00	0.00	0.00	2,200.00	-1,128.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,300.00	0.00	0.00	2,300.00	-1,028.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
. 2,400.00	0.00	0 00	2,400.00	-928 60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,500.00	0.00	0.00	2,500.00	-828.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
2,600.00	0.00	0.00	2,600.00	-728.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47





A Schlumberger Company

Company:

Devon Energy, Inc.

Project: Eddy County
Site #1H
Wellbore: OH
Design #1

Design #1 Design:

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well #1H

KB=26'.@ 3328:60usft (H&P 300)

KB=26' @ 3328.60usft (H&P 300)

Grid 3

Minimum Curvature

EDM 5000:1 Single User Db

2,800.00 0.00 0.00 2,800.00 428.60 0.00 0.00 0.00 0.00 585,795.39 617,143.47 2,800.00 0.00 0.00 0.00 2,900.00 428.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,000.00 0.00 0.00 3,000.00 -328.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,200.00 0.00 0.00 3,000.00 -128.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,200.00 0.00 0.00 0.00 3,200.00 -128.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,300.00 0.00 0.00 0.00 3,300.00 -28.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,300.00 0.00 0.00 0.00 3,300.00 71.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 171.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 171.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 371.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,500.00 0.00 0.00 3,500.00 371.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,000.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,771.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,771.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 0.00 4,500.00 1,771.40 0.00 0.00 0.00	E	*****			<u> </u>						ل نست مستند ا
	Planned Survey			·						is the	
2,700.00 0.00 0.00 2,700.00 -6.28.80 0.00 0.00 0.00 0.00 585,795.39 617,143.47 2,800.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,000.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,000.00 0.00 0.00 0.00 0.00 0.00 0.00	I The second section in the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the second section in the second section is section in the second section in the second section is section in the section in the section in the section is section in the section in the section in the section in the section i	car o a siling a sili	A		the state of the s	Delta and the second of the se	1 1995			7 - 2 At 3 - 10 A	
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3,000.00	2,800.00	0.00	0.00	2,800.00	-528.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
3,600 0 0.00 0.00 3,100 0 -228.60 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,200 0 0.00 0.00 0.00 3,200 0 -128.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,200 0 0.00 0.00 0.00 3,300.00 -28.60 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,400 0 0.00 0.00 0.00 3,500.00 171,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,600 0 0.00 0.00 3,500.00 171,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,600 0 0.00 0.00 3,500.00 271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,700 0 0.00 0.00 3,700.00 371,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,800 0 0.00 0.00 3,700.00 371,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,800 0 0.00 0.00 3,800.00 471,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,800 0 0.00 0.00 3,800.00 571,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,000 0 0.00 0.00 3,800.00 571,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,000 0 0.00 0.00 4,000.00 671,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,100 0 0.00 0.00 0.00 4,000.00 671,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,200 0 0.00 0.00 0.00 4,200.00 871,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,200 0 0.00 0.00 0.00 4,200.00 871,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400 0 0.00 0.00 0.00 4,200.00 871,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,500.00 971,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,500.00 1,771,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,800.00 1,771,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,800.00 1,271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,800.00 1,271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,800.00 1,271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 4,800.00 1,271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00 0.00 5,500.00 1,271,40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500 0 0.00 0.00	2,900.00	0.00	0.00	2,900.00	-428.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
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3,500.00 0.00 0.00 3,500.00 171.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,700.00 0.00 0.00 3,600.00 271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	3,300 00	0.00	0.00	3,300.00	-28.60	0.00	0.00	0.00	0.00	585,795.39	617,143.47
3,600.00 0,00 0,00 3,600.00 271.40 0,00 0,00 0,00 0,00 585,795.39 617,143.47 3,700.00 0,00 0,00 0,00 0,00 0,00 0,00 0,	3,400.00	0.00	0.00	3,400.00	71.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
3,700.00 0.00 0.00 3,700.00 371.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,800.00 0.00 0.00 3,800.00 471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 3,900.00 0.00 0.00 0.00 3,900.00 571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,000.00 0.00 0.00 0.00 4,000.00 671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,200.00 0.00 0.00 4,000.00 871.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,300.00 0.00 0.00 4,200.00 871.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 4,300.00 971.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 4,400.00 1,071.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,600.00 1,371.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,371.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 5,000.00 1,571.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47	3,500.00	0.00	0.00	3,500.00	171.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
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4,000.00 0.00 0.00 4,000.00 0.00 0.00 0.00 585,795.39 617,143.47 4,100.00 0.00 0.00 4,100.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,200.00 0.00 0.00 4,200.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,300.00 0.00 0.00 4,200.00 971.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,300.00 0.00 0.00 4,300.00 971.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 4,400.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,171.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 0.00 1,371.40	3,800.00	0.00	0.00	3,800.00	471.40	0 00	0.00	0.00	0.00	585,795.39	617,143.47
4,100.00 0.00 0.00 4,100.00 771.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,200.00 0.00 0.00 4,200.00 871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,300.00 0.00 0.00 4,300.00 971.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,071.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 4,500.00 1,271.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39	3,900.00	0.00	0.00	3,900.00	571.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,200.00 0.00 0.00 4,200.00 871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,300.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 1,071.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 4,500.00 1,171.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,000.00	0.00	0.00	4,000.00	671.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,300.00 0.00 0.00 4,300.00 971.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,400.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00<	4,100.00	0.00	0.00	4,100.00	771.40	0.00	0.00	0.00	0 00	585,795.39	617,143.47
4,400.00 0.00 0.00 4,400.00 1,071.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,500.00 0.00 0.00 0.00 1,171.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 0.00 <td< th=""><th>4,200.00</th><th>0.00</th><th>0.00</th><th>4,200.00</th><th>871.40</th><th>0.00</th><th>0.00</th><th>0.00</th><th>0.00</th><th>585,795.39</th><th>617,143.47</th></td<>	4,200.00	0.00	0.00	4,200.00	871.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,500.00 0.00 0.00 4,500.00 1,171.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,600.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 0.00 0.00 0.00 0.00	4,300.00	0.00	0.00	4,300.00	971.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,600.00 0.00 0.00 4,600.00 1,271.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,700.00 0.00 0.00 4,700.00 1,371.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 4,900.00 1,571.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,100.00 1,771.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 5,200.00 1,871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 5,200.00 1,871.40 0.00 0.00 0.00 0.00 58	4,400.00	0.00	0.00	4,400.00	1,071.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,700.00 0.00 0.00 4,700.00 1,371.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 4,900.00 1,571.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,100.00 1,771.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 5,200.00 1,871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,500.00	0.00	0.00	4,500.00	1,171.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,800.00 0.00 0.00 4,800.00 1,471.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 4,900.00 0.00 0.00 4,900.00 1,571.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,100.00 1,771.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 5,200.00 1,871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,600.00	0.00	0.00	4,600.00	1,271.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
4,900.00 0.00 0.00 4,900.00 1,571.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,000.00 0.00 0.00 5,000.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,700.00	0.00	0.00	4,700.00	1,371.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,000.00 0.00 0.00 5,000.00 1,671.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,100.00 0.00 0.00 5,100.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47 617,143.47 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,800.00	0.00	0.00	4,800.00	1,471.40	0 00	0.00	0.00	0.00	585,795.39	617,143.47
5,100 00 0.00 0.00 5,100.00 1,771.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47 5,200.00 0.00 0.00 0.00 0.00 0.00 0.00 585,795.39 617,143.47	4,900.00	0.00	0.00	4,900.00	1,571.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,200.00 0.00 0.00 5,200.00 1,871.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47	5,000.00	0.00	0.00	5,000.00	1,671.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
	5,100 00	0.00	0.00	5,100.00	1,771.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,300.00 0.00 0.00 5,300.00 1,971.40 0.00 0.00 0.00 0.00 585,795.39 617,143.47	5,200.00	0.00	0.00	5,200.00	1,871.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
	5,300.00	0.00	0.00	5,300.00	1,971.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47





Company: Project: Site:

Devon Energy, Inc. Eddy County

Beryl 33 Fed Well: #1H ⊮Wellboré: ОН

Design: Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method: Database:

Well #1H KB=26 @ 3328.60usft (H&P 300)

KB=26' @ 3328.60usft (H&P 300)

Grid,

Minimum Curvature

EDM 5000:1 Single:User Db

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MD	inc Azi (azimuth)	TVD	TVDŠŠ	N/S.	NV.	/. Sec	ĎĹeg.	Northing	Easting
(usft)	(*)	(°),			(usft) (u	sft)	(usft) 🎉 🚉 🛶 (१)	(00usft)	(usft)	ે (üsft) ને
5,400.00	0.00	0.00	5,400.00	2,071.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,500.00	0.00	0.00	5,500.00	2,171.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,600.00	0.00	0.00	5,600.00	2,271.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,700.00	0.00	0.00	5,700.00	2,371.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,800.00	0 00	0.00	5,800.00	2,471.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
5,900.00	0.00	0.00	5,900.00	2,571.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,000.00	0.00	0.00	6,000.00	2,671 40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,100.00	0.00	0.00	6,100.00	2,771.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,200.00	0.00	0.00	6,200.00	2,871.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,300.00	0.00	0.00	6,300.00	2,971.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,400.00	0.00	0.00	6,400.00	3,071.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,500.00	0.00	0.00	6,500.00	3,171.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,600.00	0.00	0.00	6,600.00	3,271.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,700.00	0.00	0.00	6,700.00	3,371.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
6,800.00	0.00	0.00	6,800.00	3,471.40	0.00	0.00	0.00	0.00	585,795.39	617,143 47
6,900.00	0.00	0.00	6,900.00	3,571.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,000.00	0.00	0.00	7,000 00	3,671.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,100.00	0.00	0.00	7,100.00	3,771.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,200.00	0.00	0.00	7,200.00	3,871.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,300.00	0.00	0.00	7,300 00	3,971.40	0 00	0.00	0.00	0.00	585,795.39	617,143.47
7,400.00	0.00	0.00	7,400.00	4,071.40	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,412.05	0.00	0.00	7,412.05	4,083.45	0.00	0.00	0.00	0.00	585,795.39	617,143.47
7,450.00	3.80	359.94	7,449.97	4,121.37	1.26	0.00	1.26	10.00	585,796.65	617,143.47
7,500.00	8.80	359.94	7,499.66	4,171.06	6.74	-0.01	6.74	10.00	585,802.13	617,143.46
7,550 00	13.80	359.94	7,548.67	4,220.07	16 53	-0.02	16.53	10.00	585,811.92	617,143.45
7,600.00	18.80	359.94	7,596.65	4,268.05	30.55	-0.03	30.55	10.00	585,825.94	617,143.44
7,650.00	23.80	359.94	7,643.22	4,314.62	48.70	-0.05	48.70	10.00	585,844.09	617,143.42





A Schlumberger Company

Company: Project:

Devon Energy, Inc.

Site: Well: Wellbore:

Eddy County Beryl 33 Fed #1H Design.#1

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: North Reference:

Database:

Well #1H KB=26 @ 3328.60usft (H&P,300)

KB=26' @ 3328.60usft (H&P 300)

Grid. Minimum Curvature. EDM-5000:1 Single User Db =

Planned Survey

Design:

MD (usft)	Inc. Azl (TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	M' 1 15 12 2 1 1 4 2 1 1 1	DLeg 100usft)	Northing (usft)	Easting (usft)
7,700.00	28.80	359.94	7,688.03	4,359.43	70.85	-0.07	70.85	10.00	585,866.24	617,143.40
7,750.00	33.80	359.94	7,730.74	4,402.14	96.81	-0.10	96.81	10.00	585,892.20	617,143.37
7,800.00	38.80	359.94	7,771.03	4,442.43	126.40	-0.13	126.40	10.00	585,921.79	617,143.34
7,850.00	43.80	359.94	7,808.58	4,479.98	159.38	-0.16	159.39	10.00	585,954.77	617,143.31
7,900.00	48.80	359.94	7,843.12	4,514.52	195.52	-0.20	195.52	10.00	585,990 91	617,143.27
7,950.00	53.80	359.94	7,874.37	4,545.77	234.53	-0.24	234.53	10.00	586,029.92	617,143.23
8,000 00	58.80	359.94	7,902.11	4,573.51	276 11	-0.28	276 11	10.00	586,071.50	617,143.19
8,050.00	63.80	359.94	7,926.12	4,597.52	319.95	-0.33	319.95	10.00	586,115.34	617,143.14
8,100.00	68.80	359.94	7,946.21	4,617.61	365.72	-0.38	365.72	10.00	586,161.11	617,143.09
8,150.00	73.80	359.94	7,962.24	4,633.64	413.06	-0.43	413.06	10.00	586,208.45	617,143.04
8,200.00	78.80	359.94	7,974.09	4,645.49	461.62	-0.48	461.62	10.00	586,257.01	617,142.99
8,250.00	83.80	359.94	7,981.65	4,653.05	511.03	-0.53	511.03	10.00	586,306.42	617,142.94
8,300.00	88.80	359.94	7,984.88	4,656.28	560.91	-0.58	560.91	10.00	586,356.30	617,142.89
8,314.04	90.20	359.94	7,985.00	4,656.40	574.95	-0.59	574.95	10.00	586,370.34	617,142.88
8,400.00	90.20	359 94	7,984 71	4,656.11	660 91	-0.68	660.91	0.00	586,456.30	617,142.79
8,500.00	90.20	359.94	7,984.36	4,655.76	760.91	-0.78	760.91	0.00	586,556.30	617,142.69
8,600.00	90.20	359.94	7,984.01	4,655.41	860.91	-0.89	860.91	0.00	586,656.30	617,142.58
8,700.00	90.20	359.94	7,983.67	4,655.07	960.90	-0.99	960.91	0.00	586,756.29	617,142.48
8,800.00	90.20	359.94	7,983.32	4,654.72	1,060.90	-1.09	1,060.90	0.00	586,856.29	617,142.38
8,900.00	90.20	359.94	7,982.97	4,654.37	1,160.90	-1.20	1,160.90	0.00	586,956.29	617,142.27
9,000.00	90.20	359.94	7,982.62	4,654.02	1,260.90	-1.30	1,260.90	0.00	587,056.29	617,142.17
9,100.00	90.20	359.94	7,982.28	4,653.68	1,360.90	-1.40	1,360.90	0.00	587,156.29	617,142.07
9,200.00	90.20	359.94	7,981.93	4,653.33	1,460.90	-1.51	1,460.90	0.00	587,256.29	617,141.96
9,300.00	90.20	359.94	7,981.58	4,652.98	1,560.90	-1.61	1,560.90	0.00	587,356.29	617,141.86
9,400 00	90.20	359.94	7,981 24	4,652.64	1,660.90	-1.71	1,660.90	0.00	587,456.29	617,141.76
9,500.00	90.20	359.94	7,980.89	4,652.29	1,760.90	-1.82	1,760.90	0.00	587,556.29	617,141.65
9,600.00	90.20	359.94	7,980.54	4,651.94	1,860.90	-1.92	1,860.90	0.00	587,656.29	617,141.55





A Schlumberger Company

Company: Devon Energy, Inc.
Project: Eddy County
Site: Beryl 33 Fed
Well: #1H
Wellbore OH
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

:Database:

Well;#1H

KB=26 @ 3328:60usft (H&P 300)

KB=26 @ 3328.60usft (H&P 300)

Grid Minimum Curvature EDM 5000.1 Single User Db.

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MD	lnc Azi	(azimuth)	TVD		The same of the sa	3 A . A . A . A . A . A . A . A . A . A			Northing	Easting.
(usft) 9,700.00		359.94		(usft)		(usft)	(usft) (°) 1,960.90	0.00 0.00	(usft): 587,756.29	(usft) 617,141.45
9,700.00	90.20 90.20	359.94 359.94	7,980.20	4,651.60	1,960.90	-2.02	2,060.90	0.00	587,856.29	617,141.45
9,800 00	90.20	359 94	7,979.85	4,651.25	2,060.90	-2.12	2,060.90	0.00	367,636.29	
9,900.00	90.20	359.94	7,979.50	4,650.90	2,160.90	-2.23	2,160.90	0.00	587,956.29	617,141 24
10,000.00	90.20	359.94	7,979.15	4,650.55	2,260.90	-2.33	2,260.90	0.00	588,056.29	617,141.14
10,100.00	90.20	359 94	7,978.81	4,650.21	2,360.90	-2.43	2,360.90	0.00	588,156.29	617,141 04
10,200.00	90.20	359.94	7,978.46	4,649.86	2,460.90	-2.54	2,460.90	0.00	588,256.29	617,140.93
10,300.00	90.20	359.94	7,978.11	4,649.51	2,560.89	-2.64	2,560.90	0.00	588,356.28	617,140.83
10,400.00	90.20	359.94	7,977.77	4,649.17	2,660.89	-2.74	2,660.90	0.00	588,456.28	617,140.73
10,500.00	90.20	359.94	7,977.42	4,648.82	2,760.89	-2.85	2,760.89	0.00	588,556.28	617,140.62
10,600.00	90.20	359.94	7,977 07	4,648.47	2,860.89	-2.95	2,860 89	0.00	588,656.28	617,140.52
10,700.00	90.20	359.94	7,976.73	4,648.13	2,960.89	-3.05	2,960.89	0.00	588,756.28	617,140.42
10,800.00	90.20	359.94	7,976.38	4,647.78	3,060.89	-3.16	3,060.89	0.00	588,856.28	617,140.31
10,900.00	90.20	359.94	7,976.03	4,647.43	3,160.89	-3.26	3,160.89	0.00	588,956.28	617,140.21
11,000.00	90.20	359.94	7,975.68	4,647.08	3,260.89	-3.36	3,260.89	0.00	589,056.28	617,140.11
11,100.00	90.20	359.94	7,975.34	4,646.74	3,360.89	-3.46	3,360.89	0.00	589,156 28	617,140.01
11,200.00	90.20	359.94	7,974.99	4,646.39	3,460.89	-3.57	3,460.89	0.00	589,256.28	617,139.90
11,300.00	90.20	359.94	7,974.64	4,646.04	3,560.89	-3.67	3,560.89	0.00	589,356.28	617,139.80
11,400.00	90.20	359.94	7,974.30	4,645.70	3,660.89	-3.77	3,660.89	0.00	589,456.28	617,139.70
11,500.00	90.20	359.94	7,973.95	4,645.35	3,760.89	-3.88	3,760.89	0.00	589,556.28	617,139.59
11,600.00	90.20	359.94	7,973 60	4,645.00	3,860.89	-3.98	3,860.89	0.00	589,656 28	617,139 49
11,700.00	90.20	359.94	7,973.26	4,644.66	3,960.89	-4.08	3,960.89	0.00	589,756.28	617,139.39
11,800.00	90.20 🥎	359.94	7,972.91	4,644.31	4,060.88	-4.19	4,060.89	0.00	589,856.27	617,139.28
11,900.00	90.20	359.94	7,972.56	4,643.96	4,160.88	-4.29	4,160.89	0.00	589,956.27	617,139.18
12,000.00	90.20	359.94	7,972.22	4,643.62	4,260.88	-4.39	4,260.89	0.00	590,056.27	617,139.08
12,100.00	90.20	359.94	7,971.87	4,643.27	4,360.88	-4.49	4,360.89	0.00	590,156 27	617,138 98
12,200.00	90.20	359.94	7,971.52	4,642.92	4,460.88	-4.60	4,460.88	0.00	590,256.27	617,138.87
12,300.00	90.20	359.94	7,971.17	4,642.57	4,560.88	-4.70	4,560.88	0.00	590,356.27	617,138.77



Pathfinder

Pathfinder X&Y Report



A Schlumberger Company

Company: Local Co-ordinate Reference:.... Devon Energy, Inc. TVD Reference: Eddy County Site: Beryl 33 Fed MD Reference: North Reference: Well: #1H Grid : Minimum Curvature Wellbore: ОН Survey Calculation Method: Design: 5 EDM 5000.1 Single User Db. Design #1 Databáse: PROVINCE CONTRACTOR

ľ	Planned Survey ***	7 1					Av to the terms of		the state of the first first for	. Y	12 - 4-4 1 1 2 - 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MD	Inc	Azi (azimuth)	TVD	TVDSS	N/S	E/W	V. Sec	DLeq	Northing	Eásting
	(usft)	(3)	(°) جَارِي (°).	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	, (usft)
	12,400.00	90.20	359.94	7,970.83	4,642.23	4,660.88	-4.80	4,660.88	0.00	590,456.27	617,138.67
	12,500.00	90.20	359.94	7,970.48	4,641.88	4,760.88	-4.91	4,760.88	0.00	590,556.27	617,138.56
	12,600.00	90.20	359.94	7,970.13	4,641.53	4,860.88	-5.01	4,860.88	0.00	590,656.27	617,138.46
	12,638.48	90.20	359.94	7,970.00	4,641.40	4,899 36	-5.05	4,899.36	0.00	590,694.75	617,138.42
	BHL (Beryl 1))				•			2.		¢ .
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Checked By:	Approved By:	Date:
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devon

Project: Eddy County Site: Beryl 33 Fed

Well: #1H Wellbore: OH

Plan: Design #1 (#1H/OH)

PROJECT DETAILS: Eddy County Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid. GRS 1980 Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Local North: Grid

SECTION DETAILS

Sec	MD	Inc	Azı	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0 00	0 00	0.00	0 00	0 00	0 00	0 00	0.00	0.00	
2	7412 05	0 00	0 00	7412 05	0 00	0 00	0 00	0 00	0.00	
3	8314 04	90.20	359 94	7985.00	574 95	-0.59	10 00	359 94	574 95	
4	12638 48	90 20	359 94	7970 00	4899 36	-5 05	0.00	0 00	4899 36	BHL (Beryl 1)

WELL DETAILS #1H

Ground Elevation: 3302 60 RKB Elevation KB=26' @ 3328 60usft (H&P 300)

Rig Name H&P 300

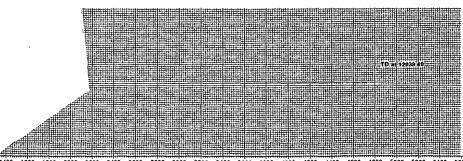
+N/-S +E/-W Northing Easting Latitude Longitude 0 00 0 00 585795 390 617143 470 32° 36′ 36 582 N 104° 5′ 13 720 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name TVD +N/-S +E/-W Northing Easting Shape BHL (Beryl 1) 7970 00 4899.36 -5 05 590694 750 617138 420 Point

Azimuths to Grid North True North: -0.13° Magnetic North: 7.70°

Magnetic Field Strength: 48819.3snT Dip Angle: 60.48° Date: 7/22/2011 Model: IGRF200510

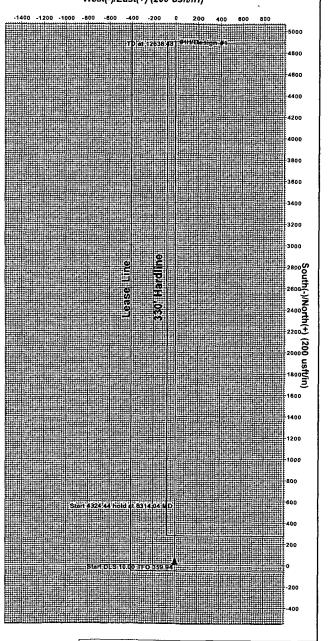


.0 1400 1800 1800 2000 2200 2400 2800 2800 3000 3200 3400 3600 3600 4000 4200 4400 4800 4800 5000 5200 5400 5600

Vertical Section at 359.94° (200 usft/in)

PATHFINDER

A Schlumberger Company West(-)/East(+) (200 usfl/in)



Plan: Design #1 (#1H/OH)

Created By. Nate Bingham Date 15.20, July 22 2011

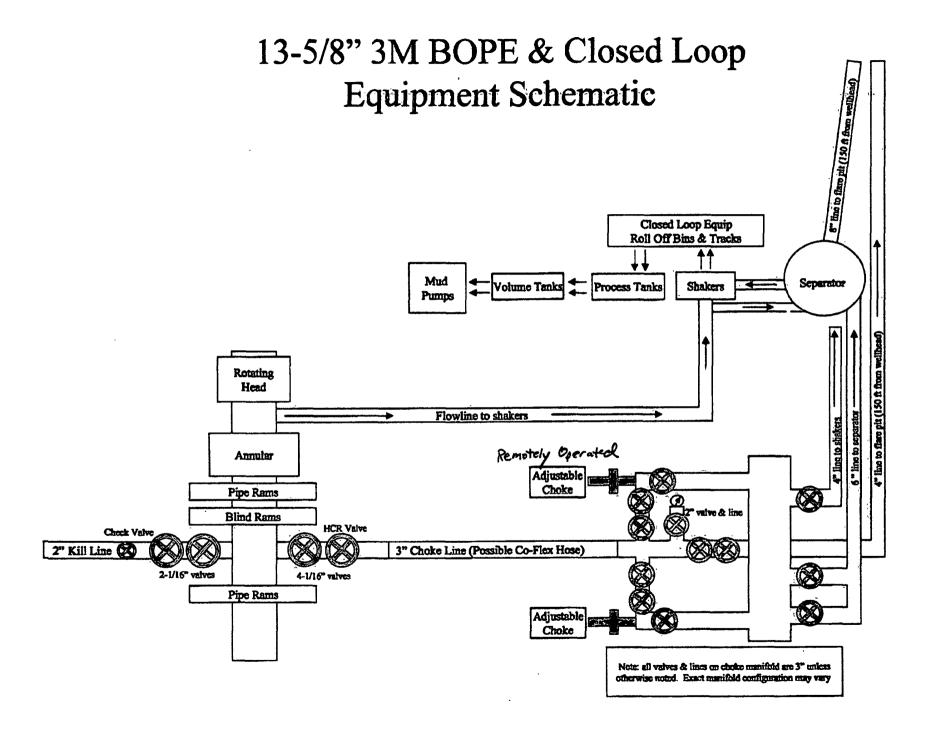
Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

Beryl 33 Federal 1H

Surface Location: 50' FSL & 400' FWL, Unit M, Sec 33 T19S R29E, Eddy, NM Bottom hole Location: 330' FNL & 400' FWL, Unit D, Sec 33 T19S R29E, Eddy, NM

- 1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
- 2. Wear ring will be properly installed in head.
- 3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 3000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
- 6. All choke lines will be anchored to prevent movement.
- 7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
- 8. Will maintain a kelly cock attached to the kelly.
- 9. Hand wheels and wrenches will be properly installed and tested for safe operation.
- 10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
- 11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.





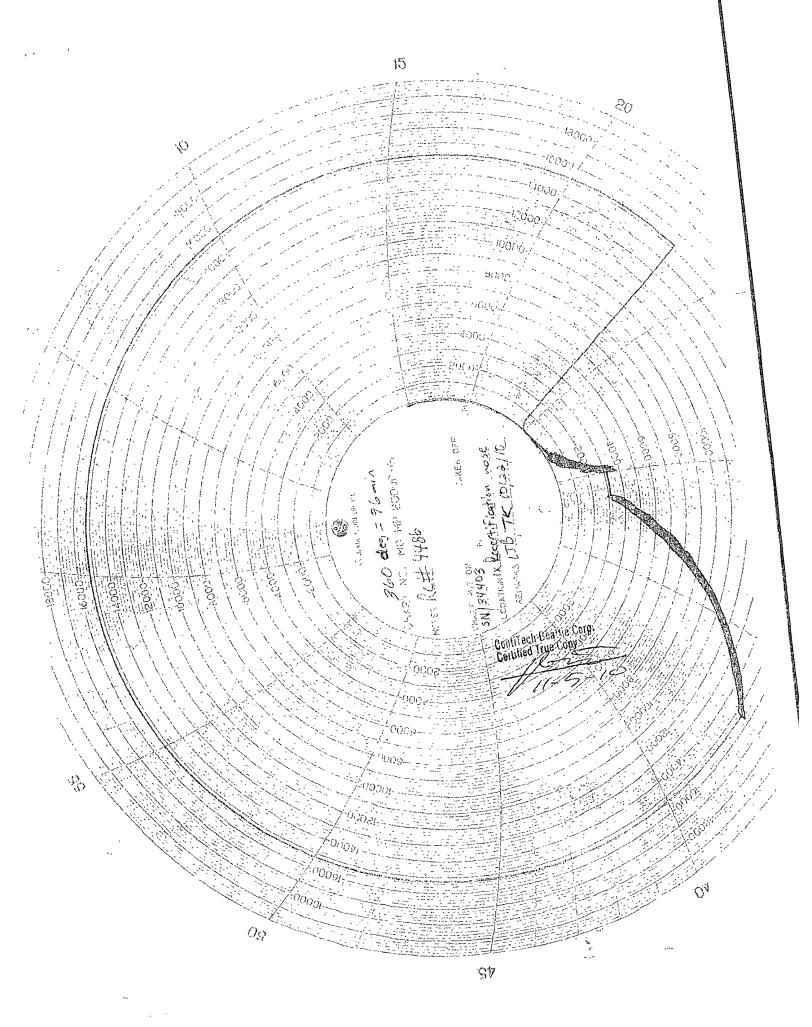
Serial# 49106



Certificate Number: 4520	PBC No:	10321	Customer Name & Address								
					HELMERICH & PAYNE INTL DRILLING CO						
Customer Purchase Order No:	RIG 300				1437 SOUTH	BOULDER					
					TULSA, OK 7	4119		*			
Project:							· Agreement				
Test Centre Address	Accept	ed by Conti Tec	h Beattle Inspec	tlon	THE STREET	Accepted	liby/Client	Inspect	on and a second		
ContiTech Beattie Corp.		Josh Sims									
11535 Brittmoore Park Drive	Signed:	1	267								
Houston, TX 77041	1.	A STATE OF THE STA									
USA	Date:	10/27/10									

We certify that the goods detailed hereon have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industrial standards within the requirements of the purchase order as issued to ContiTech Beattie Corporation.

	These goods, were made in the United States of Ame	erica.		`			
Item:	Part No Description Q		Serial Number	As-Built: V Length (m) F	Vork: ress:	Test Press.	Test Time (minutes)
1	3" ID 10K Choke & Kill Hose x 35ft OAL	1	49106	10	kpsi	15 kpsi	60
	End A. 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End B: 4 1/16" 10Kpsi API Spec 6A Type 6BX Flange						
	Working Pressure. 10,000psi						
	Test Pressure: 15,000psi						





Devon Energy Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260

Hydrogen Sulfide (H₂S) Contingency Plan

For

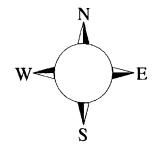
Beryl 33 Federal 1H

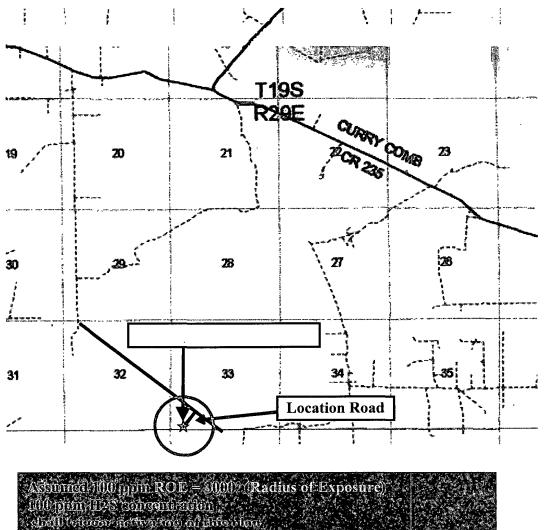
Sec-33, T-19S R-29E 50'FSL & 400' FWL, LAT. = 32.3520903'N (NAD83) LONG = 104.0871419'W

Eddy County NM

BERYL "33" Federal 1H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.





Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated Northeasteast then Southwest on caliche road. Crews should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. Evacuation should continue if necessary both directions of lease access road. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Devon Energy Corp. Company Call List

Artesia (575)	<u>Cellular</u>	Office	<u>Home</u>	
Foreman Dohout Doll	749 7449	749 0179	746 2001	
Foreman – Robert Bell				
Asst. Foreman –Tommy Pol	•			
Don Mayberry				
Montral Walker			936-414-6246	
Engineer – Steven Jones(405) 596-8041(405) 552-7994				

Agency Call List

<u>Le</u> a	Hobbs				
County	State Police	392-5588			
(575)	City Police				
	Sheriff's Office				
	Ambulance				
	Fire Department	397-9308			
	LEPC (Local Emergency Planning Committee)				
	NMOCD				
	US Bureau of Land Management	393-3612			
<u>E</u> ddy	Carlsbad				
County	State Police	885-3137			
<u>(575)</u>	City Police				
1=1-1	Sheriff's Office				
	Ambulance				
	Fire Department				
	LEPC (Local Emergency Planning Committee)				
	New Mexico Emergency Response Commission (Santa Fe) (505)476-9600 24 HR				
	National Emergency Response Center (Washington, DC)	• •			
	National Emergency Response Center (Washington, DC)	(800) 424-8802			
	Emergency Services				
	Boots & Coots IWC1-800-256-96	588 or (281) 031-8884			
	Cudd Pressure Control(915) 699-01				
	Halliburton(575) 746-27				
	B. J. Services				
Give	Flight For Life - Lubbock, TX	(806) 743-9911			
GPS	Aerocare - Lubbock, TX				
position:	Med Flight Air Amb - Albuquerque, NM				
r	Lifeguard Air Med Svc. Albuquerque, NM				

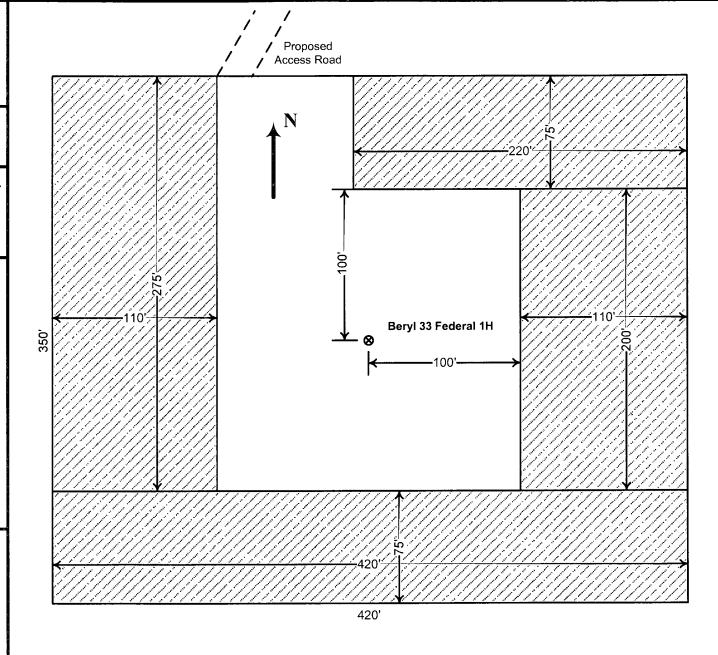
Prepared in conjunction with Wade Rohloff





Proposed Interim Site Reclamation

Devon Energy Production Co. Beryl 33 Federal 1H 50' FSL & 400' FWL Sec. 33-T19S-R29E Eddy County, NM



Proposed Reclamation Area

Scale: 1in = 60ft.

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy prod Co
LEASE NO.: NM98173
WELL NAME & NO.: Beryl 33 Federal 1H
SURFACE HOLE FOOTAGE: 50' FSL & 400' FWL
BOTTOM HOLE FOOTAGE 330' FNL & 400' FWL
LOCATION: Section 33, T.19 S., R.29 E., NMPM
COUNTY: Eddy County, New Mexico

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

☐ General Provisions ☐ Permit Expiration
Archaeology, Paleontology, and Historical Sites
Noxious Weeds
Special Requirements
Cave/Karst
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
☑ Drilling
High Cave/Karst
Cement/Mud Requirements
Logging Requirements
Waste Material and Fluids
☐ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Tank Battery Liners and Berms:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

ROAD FENCING:

The entire length of newly constructed access road will be fenced on both sides in such a way that vehicle travel off of the road is not possible. The fence will be constructed of vertically placed t-posts only so not to interfere with livestock and wildlife travel. All currently disturbed areas outside of the approved width of the road (20 feet during construction, 14 foot driving surface) will be reclaimed.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-6235 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 5 inches in depth. The topsoil will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and <u>does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty (20) feet.</u>

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

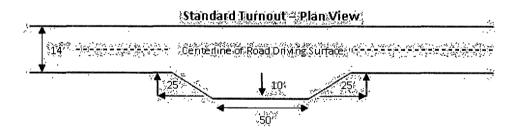
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

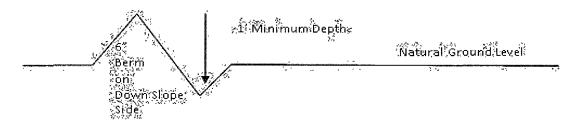


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

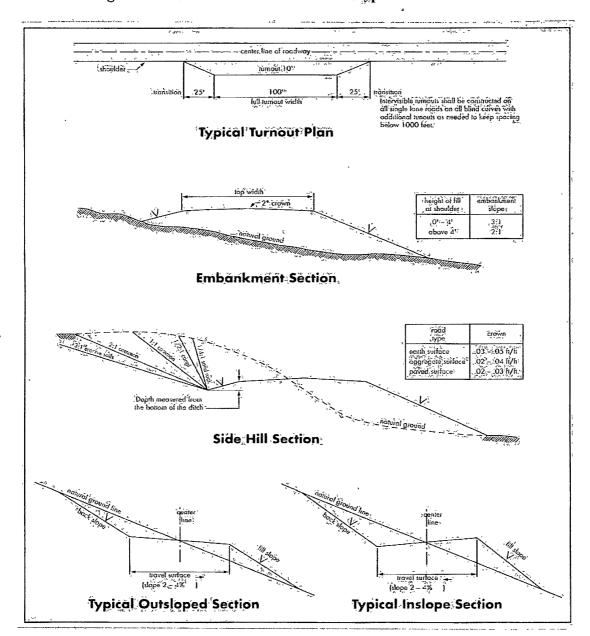


Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide has been reported as a hazard, but no measurements have been recorded. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. Also if present the Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

High cave/karst.

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Possible lost circulation in the Grayburg, San Andres, Delaware, Bone Springs and Capitan Reef formations.

Possible brine and water flows in the Salado Group, Artesia Group and the Capitan Reef if present.

- 1. The 13-3/8 inch surface casing shall be set at approximately 360 feet (in a competent bed and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface. Freshwater mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst or Capitan Reef.

If 75% or greater lost circulation occurs while drilling the intermediate casing hole, the cement on the production casing must come to surface.

Pilot hole plugging approved as proposed.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.

- a. First stage to DV tool:
- Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
- b. Second stage above DV tool:
- Cement should tie-back at least **700 feet** (as per APD) into previous casing string. Operator shall provide method of verification.
- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Variance approved to use flex line with Serial #49106 from BOP to choke manifold. Check condition of 3" flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. Anchor requirements to be onsite for review. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).

- 3. 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.
 - a. For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips or where the float does not hold, the minimum wait time before cut-off is eight hours after bumping the plug or when the cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. BOP/BOPE testing can begin after the above conditions are satisfied.
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The results of the test shall be reported to the appropriate BLM office.
 - d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 1, for Loamy Sites

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The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species

	<u>lb/acre</u>
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0

*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

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