Form 3160 -3 (February 2005)				OMB N	APPROVED lo. 1004-0137 March 31, 2007	77
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN		•		5. Lease Serial No.	355 BHL: NM66437	
APPLICATION FOR PERMIT TO	•	REENTER		6. If Indian, Allotee	or Tribe Name	_
la. Type of work: DRILL REENTE	 :R		74	7 If Unit or CA Agre	eement, Name and No.	_
y . T		gle Zone Multip	ole Zone	8. Lease Name and		
lb. Type of Well: ✓ Oil Well Gas Well Other 2. Name of Operator	▼ 2111	igie ZoneIviditi	ole Zolle	9. API Well No.	Fed Com 2H	
Devon Energy Production Co., LP	131 م			30-018-	-38483) .
3a. Address 20 North Broadway OKC, OK 73102		(include area code) 52-7802		10. Field and Pool, or	Exploratory Bone Spring, NWW	_ /2
4. Location of Well (Report location clearly and in accordance with any	v State requireme	ents.*)		11. Sec., T. R. M. or E	Blk. and Survey or Area	_
At surface SWSE 340' FSL & 1955' FEL Lot At proposed prod. zone NWNE 340' FNL & 1660' FEL Lot				Sec 6-T	19S-R31E	
14. Distance in miles and direction from nearest town or post office* Approximately 10 miles southeast of Loco Hills, NM.				12. County or Parish Eddy	13. State	<u>-</u>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 340'	16. No. of ac	cres in lease BHL: 359	17. Spacir	g Unit dedicated to this	well	
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. SL: ~50' BHL: ~740'	1 this lease, ft. SL: ~50' BHL: ~/40' 1VD 8/95' MD 12760' 13153					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3529.7' GL 3630 ×	22. Approxin	nate date work will star 12/01/2010	rt*`	23. Estimated duration 45 days	on	
	24. Attac	hments				_
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be a	ttached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover the ltem 20 above).	he operatio	ons unless covered by an	n existing bond on file (s	ee
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).	Lands, the	Operator certific Such other site BLM.		ormation and/or plans a	s may be required by the	;
25. Signature	1	(Printed/Typed)			Date	
Title		Stephanie A. Ysasa	ga		11/01/2010	_ .
Sr. Staff Engineering Technician						_
Approved by (Signature) /s/ pon Peterson	Name	(Printed/Typed)			Date JAN 27	2011 -
Title FIELD MANAGER	Office			SBAD FIELD OF		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equit	table title to those righ	ts in the sul		entitle the applicant to OVAL FOR T	NU AEVD
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr States any false, fictitious or fraudulent statements or representations as t			willfully to r			

*(Instructions on page 2)

Capitan Controlled Water Basin

RECEIVED
FEB 01 2011
NMOCD ARTESIA

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DRILLING PROGRAM

Devon Energy Production Company, LP

Helios 6 Fed Com 2H

Surface Location: 340' FSL & 1955' FEL, Unit O, Sec 6 T19S R31E, Eddy, NM Bottom hole Location: 340' FNL & 1660' FEL, Unit B, Sec 6 T19S R31E, 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.	530'	Barren
b.	Salado	670'	Barren
c,	Tansil Dolomite	2190'	Barren
d.	Yates	2300'	Oil
e,	Seven Rivers	2625'	Oil
f.	Queen	3210'	Oil
g.	San Andres	3730'	Oil
h.	Delaware	4415'	Oil
i.	Bone Springs	6385'	Oil
j.	1 st Bone Spring Ss	7785'	Oil
k.	2 nd Bone Spring Lime	8060'	Oil
1.	2 nd Bone Spring Ss	8610'	Oil
m.	2 nd Bone Spring Middle SS	8765'	Oil
n.	2 nd Bone Spring Middle Ss Ba	ase 8865'	Oil
o.	3 rd Bone Springs Lime	9005'	Oil
p.	Total Depth T	VD 8795' MD	.1 3160 *
-	•		13153

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 590 and circulating cement back to surface. The fresh water sands will be protected by setting 9 5/8" casing at 3150' 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	Casing	Weight	<u>Collar</u>	<u>Grade</u>
	Interval .		<u>Interval</u>			
17 1/2"	0'-590' 630	13 3/8"	0'-590 630	48#	STC	H-40
12 1/4"	,590°-3150°	9 5/8"	0'-3150'	40#	BTC	J-55
8 3/4"	3150'-8200	5 ½"	0'-8200'	17#	LTC	P-110HC
8 3/4"	8200'- 13160'	5 ½"	8200-13160°	17#	BTC	P-110HC
	13153		13153			

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design
			<u>Factor</u>
13 3/8"	2.99	6.72	12.20
9 5/8" 36# J-55BTC	1.62	2.43	5.66 g per grev.
5 1/2" 17# P110LTC	1.64	2.02	135 4
5 ½" 17# P110LTC	1.84	2.27	5.22
			Linus

4. Cement Program: (Note: All cement volumes are calculated with 25% excesses.)

a. 13 3/8" Surface Lead: 250 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: 750 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: 1.96 cf/sk

Tail: 300 sacks Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 52.7% Water, 14.8 ppg. Yield: 1.34 cf/sk. TOC @ surface.

c. 5 ½" Production

1st Stage

Lead: 900 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: 2.00 cf/sk

Tail: 1,300 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: 1.28 cf/sk

DV TOOL at ~4,500 ft

2nd Stage

Lead: 215 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: 150 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'

ger con

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" 5M Double 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" 5M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a 5M system 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 5,000 psi WP.

6. Proposed Mud Circulation System

	<u>Depth</u>	Mud Wt.	<u>Visc</u>	Fluid Loss	Type System
Ana A	0' - 590' 630	8.4-9.0	30-34	NC	Fresh Water
See to A	590'- 3150'	9.8-10.0	28-32	NC	Brine
	3150'-13250'	8.6-9.0	28-32	NC-12	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:

a. Drill stem tests will be based on geological sample shows.

8. Logging, Coring, and Testing Program:

- 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 145°. 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

Eddy County Sec 6 - T19S - R31E Helios 6 Fed Com #2H

Wellbore #1

Plan: Plan #1

Standard Planning Report

27 October, 2010





Great White Directional Services

Planning Report



Database:

EDM 5000.1 Single User Db

Company: Project:

Devon Energy Eddy County

Site: Well: Sec 6 - T19S - R31E

Wellbore:

Helios 6 Fed Com #2H

Design:

Wellbore #1 Plan #1

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Site Sec 6 - T19S - R31E

WELL @ 0.0usft (Original Well Elev) WELL @ 0.0usft (Original Well Elev)

Minimum Curvature

Project

Map System: Geo Datum:

US State Plane 1983.

North American Datum 1983 Map Zone: New Mexico Eastern Zone

System Datum:

Mean Sea Level

Site

Well Position

Sec 6 - T19S - R31E

Site Position: From:

Мар

Northing: Easting:

612,494.05 usft 672,661.31 usft

Latitude: Longitude:

32° 40' 59.031 N 103° 54' 23.396 W

Position Uncertainty:

0.0 usft **Slot Radius:** 13-3/16 "

Grid Convergence:

0.23

0.0 usft

Well

Helios 6 Fed Com #2H

+N/-S

+E/-W

0.0 usft 0.0 usft Northing:

Easting:

Wellhead Elevation:

612.494.05 usft 672,661.31 usft

7.84

Latitude: Longitude: **Ground Level:**

32° 40' 59.031 N 103° 54' 23.396 W

48,979

Position Uncertainty

Wellbore #1

Plan #1

Magnetics

Wellbore

Model Name

IGRF200510

Sample Date

0.0 usft

Declination (°) 10/27/10

Dip Angle . (°)

Field Strength (nT)

Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0 Direction

60.59

Vertical Section:

Depth From (TVD) (usft) 0.0

+N/-S (usft) 0.0

+E/-W (usft) 0.0

(°) 3.28

Plan Sections

	-										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00		
8,225.0	0.00	0.00	8,225.0	0.0	0.0	0.00	0.00	0.00	0.00		
9,120.4	90.00	3.28	8,795.0	569.1	32.6	10.05	10.05	0.00	3.28		
13,152.5	90.00	3.28	8,795.0	4,594.6	263.3	0.00	0.00	0.00	0.00 He	elios #2H PBHL	



Great White Directional Services

Planning Report



Database:

EDM 5000.1 Single User Db

Company:

Devon Energy

Project: Eddy County

Site: Well: Sec 6 - T19S - R31E Helios 6 Fed Com #2H

Wellbore: Design: Helios 6 Fed Com Wellbore #1

Wellbord Plan #1 Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Site Sec 6 - T19S - R31E

WELL @ 0.0usft (Original Well Elev) WELL @ 0.0usft (Original Well Elev)

Grid

Minimum Curvature

Planned S	urvey				* ,						
	asured epth	Jan dia atian	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg-	Build Rate	Turn Rate	
	usft)	Inclination (°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100ft)	(°/100ft)	(°/100ft)	
	8,225.0	0.00	0.00	8,225.0	0.0	0.0	0.0	0.00	0.00	0.00	•
K	OP 10.05	°/100 DLS @ 3	3.28° AZI - 2nd	l Bone Spring	Mid SS						
	8,250.0	2.51	3.28	8,250.0	0.5	0.0	0.5	10.05	10.05	0.00	
	8,300.0	7.54	3.28	8,299.8	4.9	0.3	4.9	10.05	10.05	0.00	
	8,350.0	12.56	3.28	8,349.0	13.6	0.8	13.7	10.05	10.05	0.00	
	8,400.0	17.59	3.28	8,397.3	26.6	1.5	26.7	10.05	10.05	0.00	
	8,450.0	22.62	3.28	8,444.2	43.8	2.5	43.8	10.05	10.05	0.00	
	8,500.0	27.64	3.28	8,489.5	65.0	3.7	65.1	10.05	10.05	0.00	
	8,550.0	32.67	3.28	8,532.7	90.0	5.2	90.2	10.05	10.05	0.00	
	8,600.0	37.69	3.28	8,573.5	118.8	6.8	119.0	10.05	10.05	0.00	
	8,647.7	42.49	3.28	8,610.0	149.4	8.6	149.7	10.05	10.05	0.00	
		pring Ss									
	8,650.0	42.72	3.28	8,611.7	151.0	8.7	151.2	10.05	10.05	0.00	
	8,700.0	47.75	3.28	8,646.9	186.4	10.7	186.7	10.05	10.05	0.00	
	8,750.0	52.77	3.28	8,678.9	224.8	12.9	225.2	10.05	10.05	0.00	
	8,800.0	57.80	3.28	8,707.3	265.8	15.2	266.2	10.05	10.05	0.00	
	8,850.0	62.82	3.28	8,732.1	309.2	17.7	309.7	10.05	10.05	0.00	
	8,900.0	67.85	3.28	8,752.9	354.5	20.3	355.1	10.05	10.05	0.00	
	8,934.6	71.33	3.28	8,765.0	386.9	22.2	387.5	10.05	10.05	0.00	
2r	•	Spring Mid Ss		•							
	8,950.0	72.88	3.28	8,769.7	401.5	23.0	402.2	10.05	10.05	0.00	
	9,000.0	77.90	3.28	8,782.3	449.8	25.8	450.5	10.05	10.05	0.00	
	9,050.0	82.93	3.28	8,790.7	499.0	28.6	499.8	10.05	10.05	0.00	
	9,100.0	87.95	3.28	8,794.6	548.8	31.4	549.7	10.05	10.05	0.00	
	9,120.4	90.00	3.28	8,795.0	569.1	32.6	570.0	10.05	10.05	0.00	
E	OC - Hole	d to TD - 2nd E	3S Mid Ss Lar	nding Depth							
	9,200.0	90.00	3.28	8,795.0	648.6	37.2	649.6	0.00	0.00	0.00	
	9,300.0	90.00	3.28	8,795.0	748.4	42.9	749.6	0.00	0.00	0.00	
	9,400.0	90.00	3.28	8,795.0	848.3	48.6	849.6	0.00	0.00	0.00	
	9,500.0	90.00	3.28	8,795.0	948.1	54.3	949.6	0.00	0.00	0.00	
'	9,600.0	90.00	3.28	8,795.0	1,047.9	60.1	1,049.6	0.00	0.00	0.00	
	9,700.0	90.00	3.28	8,795.0	1,147.8	65.8	1,149.6	0.00	0.00	0.00	
	9,800.0	90.00	3.28	8,795.0	1,247.6	71.5	1,249.6	0.00	0.00	0.00	
	9,900.0	90.00	3.28	8,795.0	1,347.4	77.2	1,349.6	0.00	0.00	0.00	
1	10,000.0	90.00	3.28	8,795.0	1,447.3	82.9	1,449.6	0.00	0.00	0.00	
	10,100.0	90.00	3.28	8,795.0	1,547.1	88.7	1,549.6	0.00	0.00	0.00	
	10,200.0	90.00	3.28	8,795.0	1,646.9	94.4	1,649.6	0.00	0.00	0.00	
	10,300.0	90.00	3.28	8,795.0	1,746.8	100.1	1,749.6	0.00	0.00	0.00	
	10,400.0	90.00	3.28	8,795.0	1,846.6	105.8	1,849.6		0.00	0.00	
1	10,500.0	90.00	3.28	8,795.0	1,946.5	111.6	1,949.6	0.00	0.00	0.00	
	10,600.0	90.00	3.28	8,795.0	2,046.3	117.3	2,049.6	0.00	0.00	0.00	
	10,700.0	90.00	3.28	8,795.0	2,146.1	123.0	2,149.6	0.00	0.00	0.00	
	10,800.0	90.00	3.28	8,795.0	2,246.0	128.7	2,249.6	0.00	0.00	0.00	
	10,900.0	90.00	3.28	8,795.0	2,345.8	134.4	2,349.6	0.00	0.00	0.00	
	11,000.0	90.00	3.28	8,795.0	2,445.6	140.2	2,449.6	0.00	0.00	. 0.00	
	11,100.0	90.00	3.28	8,795.0	2,545.5	145.9	2,549.6	0.00	0.00	0.00	
	11,200.0	90.00	3.28	8,795.0	2,645.3	151.6	2,649.6	0.00	0.00	0.00	
	11,300.0	90.00	3.28	8,795.0	2,745.1	157.3	2,749.6	0.00	0.00	0.00	
	11,400.0	90.00	3.28	8,795.0	2,845.0	163.0	2,849.6	0.00	0.00	0.00	
1	11,500.0	90.00	3.28	8,795.0	2,944.8	168.8	2,949.6	0.00	0.00	0.00	
1	11,600.0	90.00	3.28	8,795.0	3,044.7	174.5	3,049.6	0.00	0.00	0.00	
	11,700.0	90.00	3.28	8,795.0	3,144.5	180.2	3,149.6	0.00	0.00	0.00	
1	11,800.0	90.00	3.28	8,795.0	3,244.3	185.9	3,249.6	0.00	0.00	0.00	



Great White Directional Services

Planning Report



Database:

EDM 5000.1 Single User Db

Company: Project:

Devon Energy Eddy County

Site: Well: Sec 6 - T19S - R31E

Wellbore: Design:

Wellbore #1 Plan #1

Helios 6 Fed Com #2H

Local Co-ordinate Reference: | Site Sec 6 - T19S - R31E

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

WELL @ 0.0usft (Original Well Elev) WELL @ 0.0usft (Original Well Elev)

Grid

Minimum Curvature

-Measured-			Vertical			_Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
11,900.0	90.00	3.28	8.795.0	3.344.2	191.7	3,349.6	0.00	0.00	0.00
12,000.0	90.00	3.28	8,795.0	3,444.0	197.4	3,449.6	0.00	0.00	0.00
12,100.0	90.00	3.28	8,795.0	3,543.8	203.1	3,549.6	0.00	0.00	0.00
12,200.0	90.00	3.28	8.795.0	3,643,7	208.8	3,649.6	0.00	0.00	0.00
12,300.0	90.00	3.28	8,795.0	3,743.5	214.5	3,749.6	0.00	0.00	0.00
12,400.0	90.00	3.28	8,795.0	3,843.3	220.3	3,849.6	0.00	0.00	0.00
12,500.0	90.00	3.28	8,795.0	3,943.2	226.0	3,949.6	0.00	0.00	0.00
12,600.0	90.00	3.28	8,795.0	4,043.0	231.7	4,049.6	0.00	0.00	0.00
12,700.0	90.00	3.28	8,795.0	4,142.8	237.4	4,149.6	0.00	0.00	0.00
12,800.0	90.00	3.28	8,795.0	4,242.7	243.1	4,249.6	0.00	0.00	0.00
12,900.0	90.00	3.28	8,795.0	4,342.5	248.9	4,349.6	0.00	0.00	0.00
13,000.0	90.00	3.28	8,795.0	4,442.4	254.6	4,449.6	0.00	0.00	0.00
13,100.0	90.00	3.28	8,795.0	4,542.2	260.3	4,549.6	0.00	0.00	0.00
13,152.5	90.00	3.28	8,795.0	4,594.6	263.3	4,602.2	0.00	0.00	0.00

,									
Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	•	
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
		í,	(40.0)	(==,	(40.1)	(3.2.1)	()	Lantude	Longitude
Helios #2H PBHL	0.00		8,795.0	4,594.6	263.0	617,088.69	672,924.28	32° 41′ 44.485 N	103° 54' 20.102 W
 plan misses tar 	get center by	0.3usft at 13	3152.5usft	MD (8795.0	TVD, 4594.6	5 N, 263.3 E)			
- Point									

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	8,060.0	8,060.0	2nd Bone Spring Lime		0.00		
	8,225.0	8,225.0	2nd Bone Spring Mid SS		0.00		
	8,647.7	8,610.0	2n Bone Spring Ss		0.00		
	8,934.6	8,765.0	2nd Bone Spring Mid Ss		0.00		
	9,120.4	8,795.0	2nd BS Mid Ss Landing Depth		0.00		

Measured	Vertical	Local Coor	rdinates	•	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	٠
 8,225.0	8,225.0	0.0	0.0	KOP 10.05°/100 DLS @ 3.28° AZI	
9,120.4	8,795.0	569.1	32.6	EOC - Hold to TD	
13,152.5	8,795.0	4.594.6	263.3	TD at 13152.5	



Project: Eddy County Site: Sec 6 - T19S - R31E Well: Helios 6 Fed Com #2H

Wellbore: Wellbore #1 Design: Plan #1 WELL DETAILS: Helios 6 Fed Com #2H

-N/-S +E/-W 0.0 0.0 Northing 612494.05 Easting Latittude 672661.31 32° 40' 59.031 N

SHL: 340' FSL / 1955' FEL BHL: 340' FNL / 1660' FEL Longitude 103° 54' 23,396 W





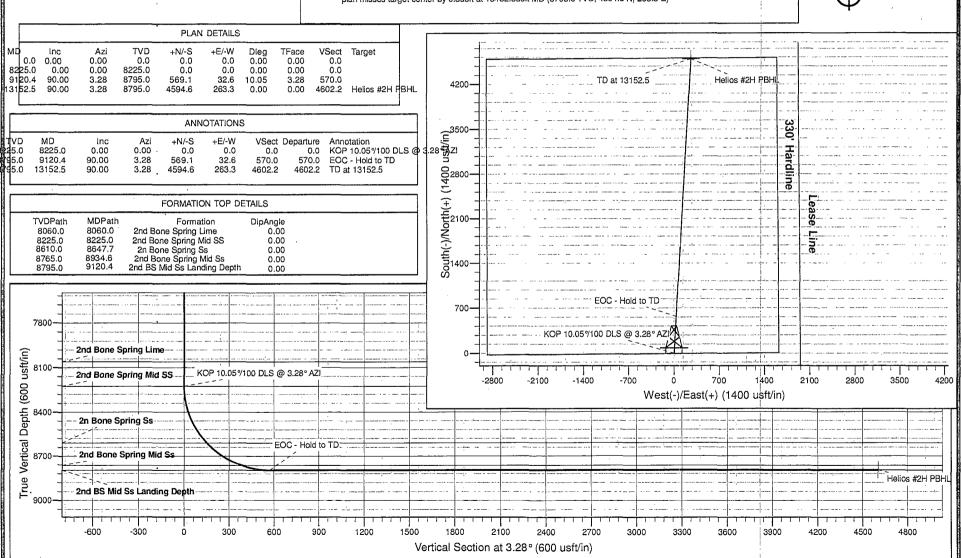
Azimuths to Grid North

Total Correction: 7.61°

Magnetic Field Strength: 48978.9snT Dip Angle: 60.59° Date: 10/27/2010 Model: IGRF200510



Name +E/-W Easting Latitude Longitude TVD +N/-S Northing 32° 41' 44.485 N 103°54' 20.102 W Helios #2H PBHL 8795.0 4594.6 263.0 617088.69 672924.28 - plan misses target center by 0.3usft at 13152.5usft MD (8795.0 TVD, 4594.6 N, 263.3 E)



Attachment to Exhibit #1 NOTES REGARDING BLOWOUT PREVENTERS

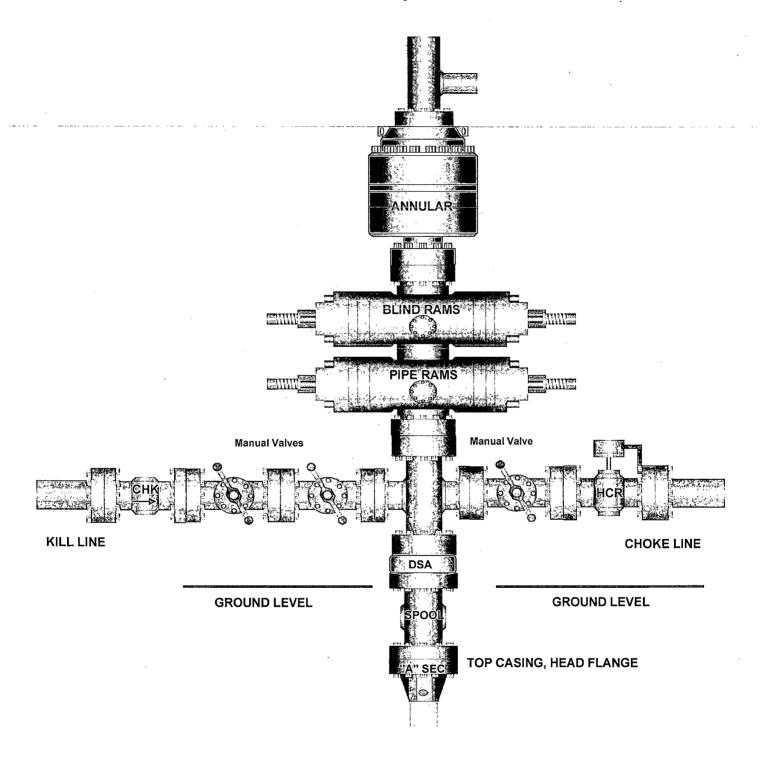
Devon Energy Production Company, LP

Helios 6 Fed Com 2H

Surface Location: 340' FSL & 1955' FEL, Unit O, Sec 6 T19S R31E, Eddy, NM Bottom hole Location: 340' FNL & 1660' FEL, Unit B, Sec 6 T19S R31E, 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 5000 psi working pressure.
- 4. All fittings will be flanged.
- 5. A full bore safety valve tested to a minimum 5000 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.

13-5/8" x 5,000 psi BOP Stack



5,000 PSI CHOKE MANIFOLD

