Form 3160-3 (March 2012) OCD Hobbs

HOBBS OCD ATS -16-355

MAY 1 6 2016

UNITED STATES

DEPARTMENT OF THE INTERIOR

OMB No. 1004-0137 Expires October 31, 2014

5. Lease Serial No. NMI C063798

BUREAU OF LAND MANAGEMENT RECEIVED If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. **V** DRILL REENTER la. Type of work: 8. Lease Name and Well No. ✓ Oil Well Gas Well Other ✓ Single Zone Multiple Zone **BLUE KRAIT 23 FED 3H** lb. Type of Well: 9. API Well No. Name of Operator Devon Energy Production Company, L.P. 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address 333 W. Sheridan Ave. 405-228-3023 Oklahoma City, OK 73102 Red Hills Bone Spring, North (96434) 🗸 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) 23-24S-33E At surface 200 FSL & 710 FEL Unit P PP: 200 FSL & 1980 FEL At proposed prod. zone 330 FNL & 1284 FEL Unit A 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* NM LEA Approximately 21 miles NW of Jal, NM 15. Distance from proposed* See attached map 16. No. of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) NMLC063798; 2480 ac 160 ac Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20. BLM/BIA Bond No. on file 19. Proposed Depth CO-1104 & NMB-000801 TVD: 11,174' MD: 15,694' Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 45 days 3,562.2' GL 11/07/2016 24. Attachments To Be Pad Drilled With: Blue Krait 23 Fed 4H & 6H The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form: Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. 5. Operator certification 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25. Signature Name (Printed Typed) Date 11/02/2015 **Brooke Milford** Title Regulatory Specialist Approved by (Signature) /Cody Layton Name (Printed Typed) Date MAY 1 0 2016 Office Title CARLSBAD FIELD OFFICE FIELD MANAGER Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. APPROVAL FOR TWO YEARS Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowing. lepartment or agency of the United States any false, fictitious or fraudulent statements or representations See attached NMOCD Conditions of Approval *(Instructions on page 2) (Continued on page 2)

Carlsbad Controlled Water Basin

SEE ATTACHED CONDITIONS OF APPROVAL

1. Geologic Formations

TVD of target	11,174'	Pilot hole depth	N/A	
MD at TD:	15,694'	Deepest expected fresh water:	1	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*	
Rustler	1,290	Barren	The Party of the P	
Top of Salt	1,770	Barren		
Base of Salt	5,090	Barren	the state of the s	
Delaware	5,190	Oil		
Cherry Canyon	6,060	Oil		
Brushy Canyon	7,640	Oil		
Bone Spring Lime	9,070	Oil		
1st Bone Spring Sand	10,065	Oil		
2 nd Bone Spring Sand	11,180	Oil		
A THE PARTY OF THE				
		(Pray 2		

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

2. Casing Program

Hole Size	Casing	Casing Interval		Weight	Grade	Conn.	SF	SF	SF
	From	To	Size	(lbs)			Collapse	Burst	Tension
17.5"	0	1,350'	13.375"	54.5	J-55	BTC	1.81	1.92	5.53
12.25" 12.25"	0 4,000'	4,000° 5,190°	9.625" 9.625"	40 40	J-55 HCK-55	LTC BTC	1.38 2.02	1.24 1.24	1.88 7.46
8.75"	0	15,694'	5.5"	17	P-110RY	DWC/C	1.16	1.06	2.07
				BLM N	linimum Sa	fety Factor	1.125	1.00	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	YorN
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	1000
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Casing	# Sks	Wt. Ib/ gal	H ₂ 0 gal/sk	Yld ft3/ sack	500# Comp. Strength (hours)	Slurry Description
13-3/8"	680	13.5	9.28	1.74	10	Lead: Class C Cement + 4% Gel + 1% Calcium Chloride + 0.125 lbs/sack Poly-E-Flake
Surface	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
13-3/8"	200	13.5	9.28	1.74	10	1 st Stage Lead: Class C Cement + 4% Gel + 1% Calcium Chloride + 0.125 lbs/sack Poly-E-Flake
Surface Two	550	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake
Stage					D	V Tool = 600ft
otage	630	14.8	6.32	1.33	6	2 nd Stage Primary: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	1090	12.9	9.81	1.85	14	Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWO0 Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	510	12.9	9.81	1.85	14	1st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter.	220	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake
Two	1		11 1 2		D	V Tool = 3000ft
Stage	590	12.9	9.81	1.85	14	2 nd Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	210	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake
5-1/2" Prod	770	11.9	12.89	2.31	n/a	Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
Single Stage	1350	14.5	5.31	1.2	25	Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
	570	11.9	12.89	2.31	n/a	1st Stage Lead: (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000
5-1/2" Prod	1350	14.5	5.31	1.2	25	1st Stage Tail: (50:50) Class H Cement: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite
Two Stage					D	/ Tool = 6500ft
Stage	160	11	14.81	2.55	22	2 nd Stage Lead: Tuned Light® Cement + 0.125 lb/sk Pol-E-Flake
	50	14.8	6.32	1.33	6	2 nd Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E- Flake



DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
13-3/8" Surface Single Stage Option	0'	100%
13-3/8" Surface Two Stage Option	1 St Stage = 600' / 2 nd Stage = 0'	100%
9-5/8" Intermediate Single Stage Option	0'	75%
9-5/8" Intermediate Casing Two Stage Option	1 St Stage = 3000' / 2 nd Stage = 0'	75%
5-1/2" Production Casing Single Stage Option	5000'	25%
5-1/2" Production Casing Two Stage Option	1 St Stage = 6500' / 2 nd Stage = 5000'	25%

4. Pressure Control Equipment

NI	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.	
IN	schematic.	

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туј	pe	~	Tested to:																	
V 30 20 20 20 20 20 20 20 20 20 20 20 20 20			Annı	ılar	X	50% of working pressure																	
			Blind	Ram	- 1																		
12-1/4"	13-5/8"	3M	Pipe I	Ram		3M																	
			Double	Ram	X	3101																	
			Other*																				
de agreement			Annı	ılar	X	50% testing pressure																	
			Blind Ram Pipe Ram																				
8-3/4"	13-5/8"	3M																					
0-3/4	13-3/6	31V1	3101	3111	SIVI	SIVI	SIVI	SIVI	SIVI	SIVI	SIVI	JIVI	JIVI	SIVI	SIVI	SIVI	SIVI	SIVI	SIVI	Double	Ram	X	3M
			Other *																				
**************************************			Annı	ılar	X																		
			Blind	Ram																			
			Pipe I	Ram																			
			Double	Ram	X																		
			Other *																				

^{*}Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

- Y Formation integrity test will be performed per Onshore Order #2.
 On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
- A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
 - Y Are anchors required by manufacturer?
- A multibowl wellhead may be being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon may use a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- The wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 3M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible
 with a standard wellhead, the well head will be cut and top out operations will be
 conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.





After running the 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the Uni-head wellhead system and will undergo a 250 psi low pressure test followed by a 3,000 psi high pressure test. The 3,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the 9-5/8' intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 3M will already be installed on the wellhead

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 3,000 psi WP.

Devon requests a variance to use a <u>flexible line</u> with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns

See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss	
From	To					
0	1,350'	FW Gel	8.6-8.8	28-34	N/C	
1,350'	5,190'	Saturated Brine	10.0-10.2	28-34	N/C	
5,190'	15,694'	Cut Brine	8.5-9.3	28-34	N/C	

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

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring	n Eq. 1
of fluid?		300

6. Logging and Testing Procedures See COA

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

See

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

7. Drilling Conditions

Condition	Specify what type and where?				
BH Pressure at deepest TVD	5404 psi				
Abnormal Temperature	No				

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

1 COL CO	Target with Total and Total Co. Provided to the Deliver					
N	H2S is present					
Y	H2S Plan attached					

8. Other facets of operation

Is this a walking operation? No. Will be pre-setting casing? No.

Attachments

x Directional Plan

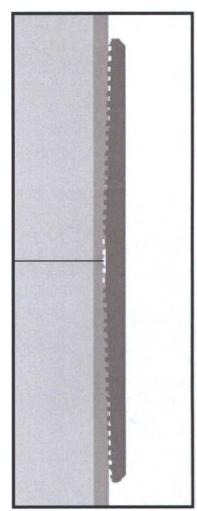
___ Other, describe

Technical Specifications

Connection Type:	Size(O.D.):	Weight (Wall):	Grade:		
DWC/C Casing	5-1/2 in	17.00 lb/ft (0.304 in)	P-110RY		
standard					



man olimate otroligin (psi)	VAM-USA 4424 W. Sam Houston Pkwy. Suite 150				
Dimensions	Houston, TX 77041				
ninal Pipe Body O.D. (in)	Phone: 713-479-3200 Fax: 713-479-3234				
ninal Pipe Body I.D.(in)	E-mail: VAMUSAsales@vam-usa.com				



P-110RY 110,000 125,000	Grade Minimum Yield Strength (psi) Minimum Ultimate Strength (psi)
5.500 4.892 0.304 17.00 16.89 4.962	Pipe Dimensions Nominal Pipe Body O.D. (in) Nominal Pipe Body I.D.(in) Nominal Wall Thickness (in) Nominal Weight (lbs/ft) Plain End Weight (lbs/ft) Nominal Pipe Body Area (sq in)
546,000 7,480 10,640 9,700	Pipe Body Performance Properties Minimum Pipe Body Yield Strength (lbs) Minimum Collapse Pressure (psi) Minimum Internal Yield Pressure (psi) Hydrostatic Test Pressure (psi)
6.050 4.892 4.767 4.13 4.962 100.0	Connection Dimensions Connection O.D. (in) Connection I.D. (in) Connection Drift Diameter (in) Make-up Loss (in) Critical Area (sq in) Joint Efficiency (%)
546,000 22,940 568,000 546,000 7,480 10,640 91.7	Connection Performance Properties Joint Strength (lbs) Reference String Length (ft) 1.4 Design Factor API Joint Strength (lbs) Compression Rating (lbs) API Collapse Pressure Rating (psi) API Internal Pressure Resistance (psi) Maximum Uniaxial Bend Rating [degrees/100 ft]
12,000 13,800 15,500	Appoximated Field End Torque Values Minimum Final Torque (ft-lbs) Maximum Final Torque (ft-lbs) Connection Yield Torque (ft-lbs)

Material

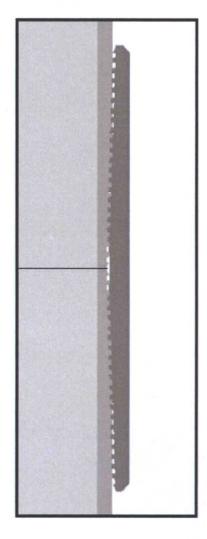
For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.



DWC Connection Data Notes:

- DWC connections are available with a seal ring (SR) option.
- All standard DWC/C connections are interchangeable for a give pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- Bending efficiency is equal to the compression efficiency.
- The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- DWC connections will accommodate API standard drift diameters.



Connection specifications within the control of VAM-USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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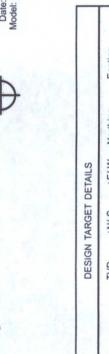
Project: Lea County, NM (NAD-83) Site: Blue Krait 23 Fed Well: 3H Wellbore: OH Design: Plan #1



Azimuths to Grid North True North: -0.42° Magnetic North: 6.78°

Magnetic Field Strength: 48172.9snT Dip Angle: 60.12° Date: 10/15/2015 Model: BGGM2015





Nudge

5500

Hold

-0009

787092.91		78709 78709 TFace	78709 78709 78709 78709	78709 78709 78709 78709 0.00	78709 78709 78709 0.00 0.00 270.00	TFace 0.00 270.00 0.00 0.00 0.00 0.00 0.00 0.	TF 18
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	NLS	VILS +E/-W	NILS +E/-W 0.00	NILS +E/-W 0.00 0.00	HE/-W 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	HES +E/-W 0.00 0.00 -21.80 -319.44 -341.24	HE/-W 0.00 0.00 0.00 0.139.44 0.341.24
	SECTION DETAILS	CTION DETA	CTION DETA	VD +N/-S 000 0.00	VD +N/-5 .00 0.00 .37 0.00	CTION DETA VD +N/-5 .00 0.00 .37 0.00 .37 0.00 .74 0.00	CCTION DETAIL VVD +N/-S 0.00 0.00 0.37 0.00 7.4 0.00 6.6 578.02
	SE	"		52	52 562	552 561 961	Azi 70.00 0.00 0.00 5200 270.00 5699 270.00 9101 0.00 9101 0.00 9101 0.00 9600 0.00 0.00 0.00 0.00 0.00 0.00
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		MD	MD 0.00	MD 0.00 5200.00	MD 0.00 5200.00 5700.00	MD 5200.00 5700.00 9115.00 9615.00	MD 5200.00 5700.00 9115.00 9615.00 10615.00
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lnc Azi TVD +N/-S +E/-W Dleg TFace 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 5200.00 0.00 0.00 0.00 0.00 0.	5.00 270.00 5699.37 0.00 -21.80 1.00 270.00 5.00 270.00 9101.37 0.00 -319.44 0.00 0.00 0.00 0.00 0.00 -310.44 1.00 180.00 0.00 0.00 9101.37 0.00 -341.24 1.00 180.00	5.00 270.00 9101.37 0.00 -319.44 0.00 0.00 0.00 0.00 0.00 9600.74 0.00 -341.24 1.00 180.00	0.00 0.00 9600.74 0.00 -341.24 1.00 180.00		90.60 356.75 11173.66 578.02 -374.10 10.00 356.75

	.S: Lea County, NM	Geodetic System: US State Plane 1983 Datum: North American Datum 1983 Ellipsoid: GRS 1980 Zone: New Maxico Eastern Zone Acatam Datum: Maan Saa Jawel
	PROJECT DETAILS:	Geodetic System: U Datum: N Ellipsoid: G Zone: N

True Vertical Depth (1000 usfvin)

Target Line:

TL#1: 90.6° INC, 11130' TVD @ TD

Drop

Hold

11500 Transmittenment proming from the property of the propert

Vertical Section at 356.75° (1000 usft/in)

4500

4000

3500

3000

2500

2000

1500

1000

200

0

KOP 10° DLS

