

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMLC063798

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
DEVON ENERGY PROD CO., L.P.Contact: LINDA GOOD
E-Mail: linda.good@devn.com8. Well Name and No.
BLUE KRAIT 23 FED 4H9. API Well No.
30-025-432383a. Address
333 WEST SHERIDAN AVE.
OKLAHOMA CITY, OK 731023b. Phone No. (include area code)
Ph: 405-552-655810. Field and Pool or Exploratory Area
RED HILLS; BONE SPRING, N

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 23 T24S R33E Mer NMP SESE 200FSL 630FEL
600

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomple horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Devon Energy Production Co., LP respectfully requests to move the SHL for the Blue Krait 23 Fed 4H 30? west in order to assist the rig for optimal well spacing. The SHL will change from 200 FSL & 600 FEL of Section 23-T24S-R33E to 200 FSL & 630 FEL of Section 23-T24S-R33E. Attached are the following documents: New C-102, directional plan, casing design and cement volumes.

NRS of 5-1-17 JP
Eng Reviewed 5/1/17 CRW

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #373945 verified by the BLM Well Information System
For DEVON ENERGY PROD CO., L.P., sent to the Hobbs
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/27/2017 ()

Name (Printed/Typed) LINDA GOOD

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 04/26/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title FV FIELD MANAGER

Date 05/03/17

Conditions of approval, if any, are attached. Approval of this notice 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.

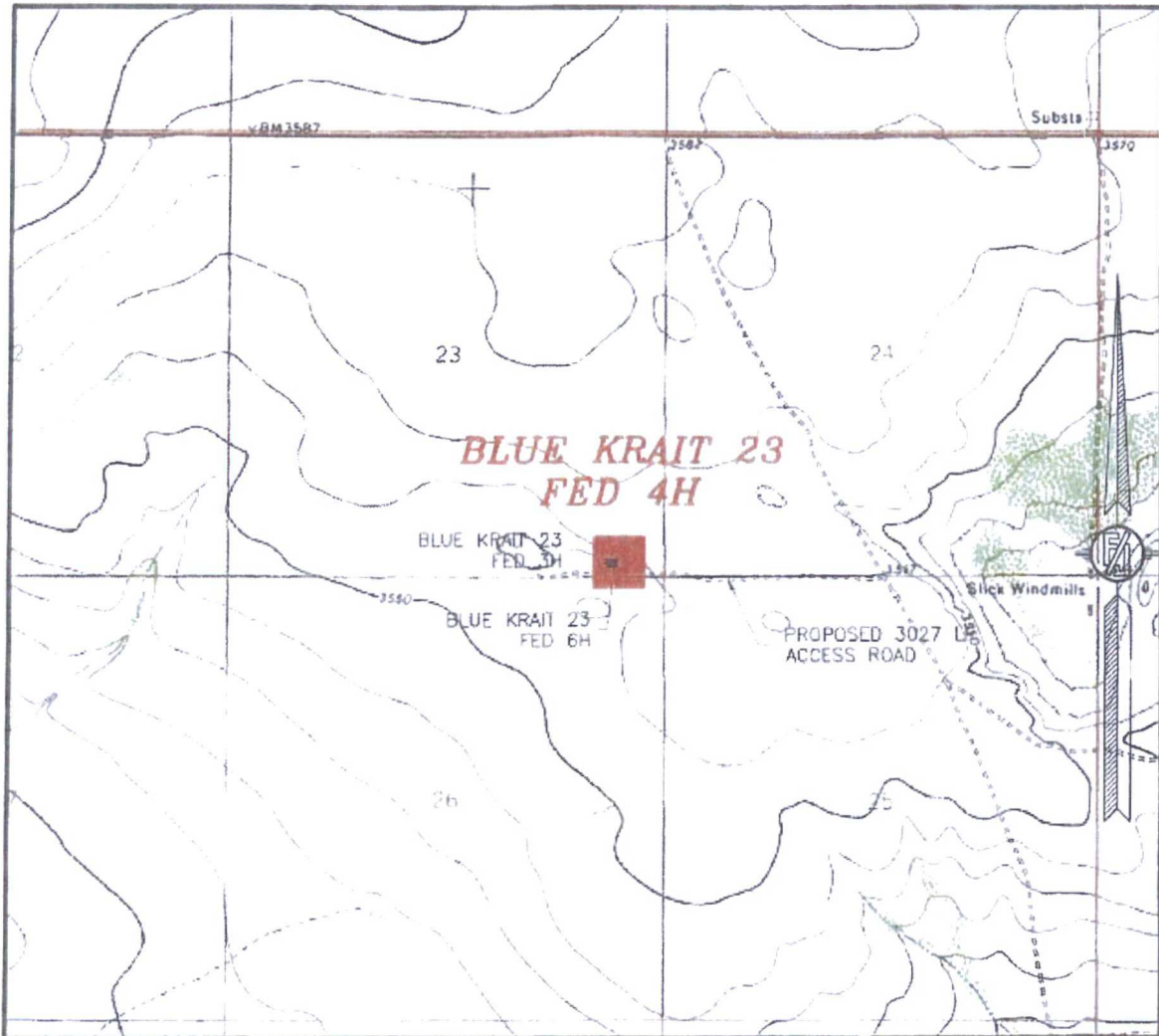
Office CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
BELL LAKE

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
BLUE KRAIT 23 FED 4H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 630 FT. FROM THE EAST LINE OF
SECTION 23, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 12, 2017

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

SURVEY NO. 3673G

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

BLUE KRAIT 23 FED 4H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 630 FT. FROM THE EAST LINE OF
SECTION 23, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 12, 2017

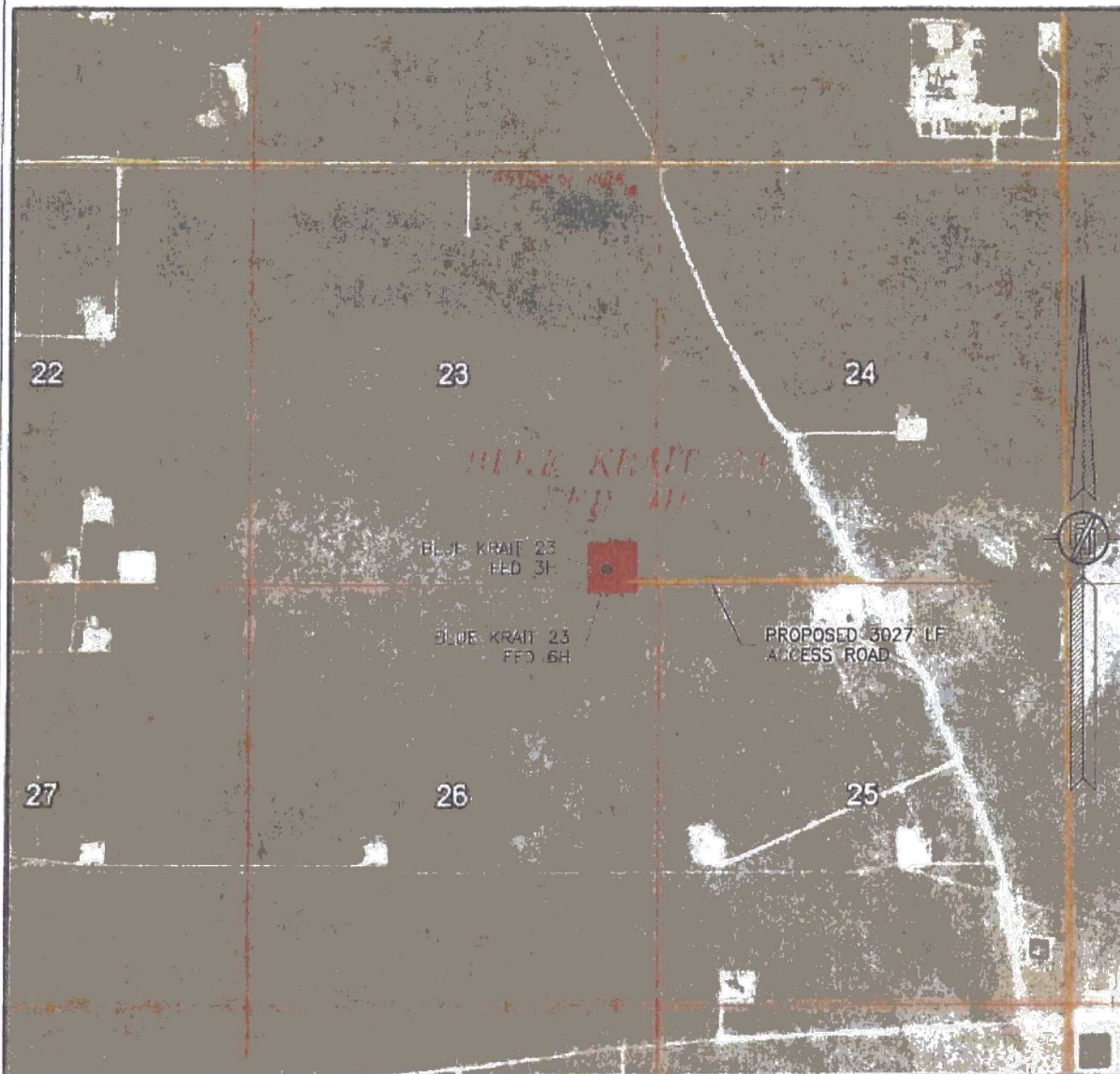
DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 AND VACA ROAD GO
SOUTHEAST ON VACA ROAD FOR APPROX. 1.1 MILES. GO WEST ON
2-TRACK ROAD FOR APPROX. 0.6 OF A MILE TO SOUTHEAST PAD
CORNER.

SURVEY NO. 3673G

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 234-3441 CARLSBAD, NEW MEXICO

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
BLUE KRAIT 23 FED 4H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 630 FT. FROM THE EAST LINE OF
SECTION 23, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 12, 2017

SURVEY NO. 3673G

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 236-3341 CARLSBAD, NEW MEXICO

SECTION 23, TOWNSHIP 24 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
FEBRUARY 2014

DEVON ENERGY PRODUCTION COMPANY, L.P.
BLUE KRAIT 23 FED 4H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 630 FT. FROM THE EAST LINE OF
SECTION 23, TOWNSHIP 24 SOUTH,
RANGE 33 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

APRIL 12, 2017

SURVEY NO. 3673G

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

Devon Energy, Blue Krait 23 Fed 4H

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn .	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	1,350'	13.375"	48	H-40	STC	1.25	2.81	8.57
12.25"	0	5,200'	9.625"	40	J-55	BTC	1.15	3.43	4.69
8.75"	0	15,810'	5.5"	17	P-110	BTC	1.18	1.4	1.98
BLM Minimum Safety Factor							1.125	1.00	1.6 Dry 1.8 Wet

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

Must have table for contingency casing

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

3. Cementing Program

Devon Energy, Blue Krait 23 Fed 4H

Casing	# Sks	Wt. lb/ gal	H ₂ O gal/sk	Yld ft ³ / sack	500# Comp. Strength (hours)	Slurry Description
13-3/8" Surface	680	13.5	9.28	1.74	10	Lead: Class C Cement + 4% Gel + 1% Calcium Chloride + 0.125 lbs/sack Poly-E-Flake
	550	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
13-3/8" Surface Two Stage	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
	550	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 600ft					
	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% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	430	14.8	6.32	1.33	6	Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
9-5/8" Inter. Two Stage	510	12.9	9.81	1.85	14	1 st Stage Lead: (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake
	220	14.8	6.32	1.33	6	1 st Stage Tail: Class C Cement + 0.125 lbs/sack Poly-E-Flake
	DV Tool = 3000ft					
	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 Single Stage	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
	1450	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
5-1/2" Prod Two Stage	570	11.9	12.89	2.31	n/a	1 st 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
	1450	14.5	5.31	1.2	25	1 st 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
	DV Tool = 6500ft					
	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

Devon Energy, Blue Krait 23 Fed 4H

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 = 4700'	25%

**5D Plan Report****Devon Energy****Field Name:** *Lea Co, NM Nad 83 NMEZ***Site Name:** *Blue Krait 23 Fed 3H, 4H***Well Name:** *Blue Krait 23 Fed 4H***Plan:** *P1:V1*

25 April 2017





Blue Krait 23 Fed 4H

Field Name: Lea Co, NM Nad 83 NMEZ	Map Units: US ft		Company Name: Devon Energy	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Blue Krait 23 Fed 3H, 4H	Units: US ft	North Reference: Grid	Convergence Angle: 0.42	
	Position:	Northing: 436096.57 US ft	Latitude: 32° 11' 47.03"	
		Easting: 787723.83 US ft	Longitude: -103° 32' 12.54"	
	Elevation above MSL:3562.20 US ft			
Comment:				
Slot: Blue Krait 23 Fed 4H	Position (Relative to Site Centre)			
	+N/-S: 0.44 US ft	Northing: 436097.01 US ft	Latitude: 32°11'47.03"	
	+E/-W: 59.99 US ft	Easting: 787783.82 US ft	Longitude: -103°32'11.84"	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3562.40 US ft			
Comment:				
Well: Blue Krait 23 Fed 4H	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment:		
	Closure Distance:4756.09US ft		Closure Azimuth:2.57°	
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft		+E/-W: 0.00 US ft	Az: 359.56°
	Magnetic Parameters:			
	Model: bggm2016	Field Strength:	Declination: 7.00°	Dip: 60.05°
	48028.5nT		Date: 31/May/2017	

Drill floor: Plan: P1:V1				
Rig Height (Drill Floor): 23.50 US ft	Elevation above MSL: 3585.90 US ft	Inclination: 0.00°	Azimuth: 0.00°	

Target set: Blue Krait 23 Fed 4H_Tgts Comment:							
Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
PBHL 4H	Point	11111.00	4751.32	212.90	440848.33	787996.72	

Wellpath created using minimum curvature.

Tie Point:						
MD: 0.00 US ft	Inclination: 0.00°	Azimuth: 0.00°	TVD: 0.00 US ft	North Offset: 0.00 US ft	East Offset: 0.00 US ft	

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	B.Rate (°/100US ft)	T.Rate (°/100US ft)	T.Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Nudge
7565.17	4.99	111.80	7564.33	-10.75	26.87	-10.95	0.75	0.75	0.00	111.80	Hold
9995.90	4.99	111.80	9985.85	-89.25	223.13	-90.96	0.00	0.00	0.00	0.00	Drop
10661.07	0.00	0.00	10650.18	-100.00	250.00	-101.92	0.75	-0.75	0.00	180.00	KOP
11486.48	90.80	359.56	11171.00	428.08	245.96	426.18	11.00	11.00	0.00	359.56	LP
15810.26	90.80	359.56	11111.00	4751.32	212.90	4749.54	0.00	0.00	0.00	0.00	PBHL 4H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	

3D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	436097.01	787783.82	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	436097.01	787783.82	Nudge
7000.00	0.75	111.80	7000.00	-0.24	0.61	-0.25	0.75	436096.77	787784.43	
7100.00	1.50	111.80	7099.98	-0.97	2.43	-0.99	0.75	436096.04	787786.25	
7200.00	2.25	111.80	7199.92	-2.19	5.47	-2.23	0.75	436094.82	787789.29	
7300.00	3.00	111.80	7299.82	-3.89	9.72	-3.96	0.75	436093.12	787793.54	
7400.00	3.75	111.80	7399.64	-6.07	15.19	-6.19	0.75	436090.94	787799.01	
7500.00	4.50	111.80	7499.38	-8.75	21.87	-8.91	0.75	436088.26	787805.69	
7565.17	4.99	111.80	7564.33	-10.75	26.87	-10.95	0.75	436086.26	787810.69	Hold
7600.00	4.99	111.80	7599.03	-11.87	29.68	-12.10	0.00	436085.14	787813.50	
7700.00	4.99	111.80	7698.65	-15.10	37.76	-15.39	0.00	436081.91	787821.58	
7800.00	4.99	111.80	7798.27	-18.33	45.83	-18.68	0.00	436078.68	787829.65	
7900.00	4.99	111.80	7897.89	-21.56	53.90	-21.98	0.00	436075.45	787837.72	
8000.00	4.99	111.80	7997.51	-24.79	61.98	-25.27	0.00	436072.22	787845.80	
8100.00	4.99	111.80	8097.13	-28.02	70.05	-28.56	0.00	436068.99	787853.87	
8200.00	4.99	111.80	8196.75	-31.25	78.13	-31.85	0.00	436065.76	787861.95	
8300.00	4.99	111.80	8296.38	-34.48	86.20	-35.14	0.00	436062.53	787870.02	
8400.00	4.99	111.80	8396.00	-37.71	94.28	-38.43	0.00	436059.30	787878.10	
8500.00	4.99	111.80	8495.62	-40.94	102.35	-41.72	0.00	436056.07	787886.17	
8600.00	4.99	111.80	8595.24	-44.17	110.42	-45.02	0.00	436052.84	787894.24	
8700.00	4.99	111.80	8694.86	-47.40	118.50	-48.31	0.00	436049.61	787902.32	
8800.00	4.99	111.80	8794.48	-50.63	126.57	-51.60	0.00	436046.38	787910.39	
8900.00	4.99	111.80	8894.10	-53.86	134.65	-54.89	0.00	436043.15	787918.47	
9000.00	4.99	111.80	8993.72	-57.09	142.72	-58.18	0.00	436039.92	787926.54	
9100.00	4.99	111.80	9093.35	-60.32	150.79	-61.47	0.00	436036.69	787934.61	
9200.00	4.99	111.80	9192.97	-63.55	158.87	-64.77	0.00	436033.46	787942.69	
9300.00	4.99	111.80	9292.59	-66.78	166.94	-68.06	0.00	436030.23	787950.76	
9400.00	4.99	111.80	9392.21	-70.01	175.02	-71.35	0.00	436027.00	787958.84	
9500.00	4.99	111.80	9491.83	-73.24	183.09	-74.64	0.00	436023.77	787966.91	
9600.00	4.99	111.80	9591.45	-76.47	191.16	-77.93	0.00	436020.54	787974.98	
9700.00	4.99	111.80	9691.07	-79.70	199.24	-81.22	0.00	436017.31	787983.06	
9800.00	4.99	111.80	9790.69	-82.93	207.31	-84.51	0.00	436014.08	787991.13	
9900.00	4.99	111.80	9890.31	-86.15	215.39	-87.81	0.00	436010.86	787999.21	
9995.90	4.99	111.80	9985.85	-89.25	223.13	-90.96	0.00	436007.76	788006.95	Drop
10000.00	4.96	111.80	9989.94	-89.38	223.46	-91.10	0.75	436007.63	788007.28	
10100.00	4.21	111.80	10089.62	-92.35	230.88	-94.12	0.75	436004.66	788014.70	
10200.00	3.46	111.80	10189.39	-94.83	237.09	-96.65	0.75	436002.18	788020.91	
10300.00	2.71	111.80	10289.25	-96.83	242.08	-98.69	0.75	436000.18	788025.90	
10400.00	1.96	111.80	10389.16	-98.34	245.86	-100.23	0.75	435998.67	788029.68	

SD Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
10500.00	1.21	111.80	10489.12	-99.37	248.42	-101.27	0.75	435997.64	788032.24	
10600.00	0.46	111.80	10589.11	-99.91	249.77	-101.82	0.75	435997.10	788033.59	
10661.07	0.00	0.00	10650.18	-100.00	250.00	-101.92	0.75	435997.01	788033.82	KOP
10700.00	4.28	359.56	10689.08	-98.55	249.99	-100.46	11.00	435998.46	788033.81	
10800.00	15.28	359.56	10787.47	-81.58	249.86	-83.50	11.00	436015.43	788033.68	
10900.00	26.28	359.56	10880.82	-46.16	249.59	-48.07	11.00	436050.85	788033.41	
11000.00	37.28	359.56	10965.69	6.43	249.19	4.52	11.00	436103.44	788033.01	
11100.00	48.28	359.56	11038.98	74.25	248.67	72.34	11.00	436171.26	788032.49	
11200.00	59.28	359.56	11097.97	154.80	248.05	152.89	11.00	436251.81	788031.87	
11300.00	70.28	359.56	11140.51	245.13	247.36	243.22	11.00	436342.14	788031.18	
11400.00	81.28	359.56	11165.03	341.91	246.62	340.01	11.00	436438.92	788030.44	
11486.48	90.80	359.56	11171.00	428.08	245.96	426.18	11.00	436525.09	788029.78	LP
11500.00	90.80	359.56	11170.81	441.60	245.86	439.70	0.00	436538.61	788029.68	
11600.00	90.80	359.56	11169.43	541.59	245.09	539.69	0.00	436638.60	788028.91	
11700.00	90.80	359.56	11168.04	641.58	244.33	639.68	0.00	436738.59	788028.15	
11800.00	90.80	359.56	11166.65	741.56	243.56	739.67	0.00	436838.57	788027.38	
11900.00	90.80	359.56	11165.26	841.55	242.80	839.66	0.00	436938.56	788026.62	
12000.00	90.80	359.56	11163.87	941.54	242.03	939.65	0.00	437038.55	788025.85	
12100.00	90.80	359.56	11162.49	1041.53	241.27	1039.64	0.00	437138.54	788025.09	
12200.00	90.80	359.56	11161.10	1141.51	240.51	1139.63	0.00	437238.52	788024.33	
12300.00	90.80	359.56	11159.71	1241.50	239.74	1239.62	0.00	437338.51	788023.56	
12400.00	90.80	359.56	11158.32	1341.49	238.98	1339.61	0.00	437438.50	788022.80	
12500.00	90.80	359.56	11156.94	1441.48	238.21	1439.61	0.00	437538.49	788022.03	
12600.00	90.80	359.56	11155.55	1541.46	237.45	1539.60	0.00	437638.47	788021.27	
12700.00	90.80	359.56	11154.16	1641.45	236.68	1639.59	0.00	437738.46	788020.50	
12800.00	90.80	359.56	11152.77	1741.44	235.92	1739.58	0.00	437838.45	788019.74	
12900.00	90.80	359.56	11151.39	1841.43	235.15	1839.57	0.00	437938.44	788018.97	
13000.00	90.80	359.56	11150.00	1941.41	234.39	1939.56	0.00	438038.42	788018.21	
13100.00	90.80	359.56	11148.61	2041.40	233.62	2039.55	0.00	438138.41	788017.44	
13200.00	90.80	359.56	11147.22	2141.39	232.86	2139.54	0.00	438238.40	788016.68	
13300.00	90.80	359.56	11145.84	2241.38	232.09	2239.53	0.00	438338.39	788015.91	
13400.00	90.80	359.56	11144.45	2341.36	231.33	2339.52	0.00	438438.37	788015.15	
13500.00	90.80	359.56	11143.06	2441.35	230.57	2439.51	0.00	438538.36	788014.39	
13600.00	90.80	359.56	11141.67	2541.34	229.80	2539.50	0.00	438638.35	788013.62	
13700.00	90.80	359.56	11140.28	2641.33	229.04	2639.49	0.00	438738.34	788012.86	
13800.00	90.80	359.56	11138.90	2741.31	228.27	2739.48	0.00	438838.32	788012.09	
13900.00	90.80	359.56	11137.51	2841.30	227.51	2839.47	0.00	438938.31	788011.33	
14000.00	90.80	359.56	11136.12	2941.29	226.74	2939.46	0.00	439038.30	788010.56	
14100.00	90.80	359.56	11134.73	3041.28	225.98	3039.45	0.00	439138.29	788009.80	
14200.00	90.80	359.56	11133.35	3141.26	225.21	3139.44	0.00	439238.27	788009.03	
14300.00	90.80	359.56	11131.96	3241.25	224.45	3239.43	0.00	439338.26	788008.27	
14400.00	90.80	359.56	11130.57	3341.24	223.68	3339.42	0.00	439438.25	788007.50	
14500.00	90.80	359.56	11129.18	3441.23	222.92	3439.41	0.00	439538.24	788006.74	
14600.00	90.80	359.56	11127.80	3541.21	222.15	3539.40	0.00	439638.22	788005.97	
14700.00	90.80	359.56	11126.41	3641.20	221.39	3639.39	0.00	439738.21	788005.21	
14800.00	90.80	359.56	11125.02	3741.19	220.62	3739.38	0.00	439838.20	788004.44	
14900.00	90.80	359.56	11123.63	3841.18	219.86	3839.37	0.00	439938.19	788003.68	
15000.00	90.80	359.56	11122.24	3941.16	219.10	3939.36	0.00	440038.17	788002.92	
15100.00	90.80	359.56	11120.86	4041.15	218.33	4039.35	0.00	440138.16	788002.15	
15200.00	90.80	359.56	11119.47	4141.14	217.57	4139.35	0.00	440238.15	788001.39	
15300.00	90.80	359.56	11118.08	4241.13	216.80	4239.34	0.00	440338.14	788000.62	
15400.00	90.80	359.56	11116.69	4341.11	216.04	4339.33	0.00	440438.12	787999.86	
15500.00	90.80	359.56	11115.31	4441.10	215.27	4439.32	0.00	440538.11	787999.09	
15600.00	90.80	359.56	11113.92	4541.09	214.51	4539.31	0.00	440638.10	787998.33	
15700.00	90.80	359.56	11112.53	4641.08	213.74	4639.30	0.00	440738.09	787997.56	
15800.00	90.80	359.56	11111.14	4741.06	212.98	4739.29	0.00	440838.07	787996.80	
15810.26	90.80	359.56	11111.00	4751.32	212.90	4749.54	0.00	440848.33	787996.72	PBHL 4H