

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Operator Name and Address LCX ENERGY, LLC. 110 NORTH MARIENFELD SUITE 200 MIDLAND, TEXAS 79701		OGRID Number 218885
Property Code 36202	Property Name BIG DOG STATE UNIT	API Number 30: 015-35486
Proposed Pool 1 UNDES. FOURMILE DRAW-WOLFCAMP		Well No. 211
Proposed Pool 2		

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	18S	23E		660'	NORTH	1880'	WEST	EDDY CO.

Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	18S	23E		660'	SOUTH	1880'	WEST	EDDY CO.

Additional Well Information

Work Type Code N	Well Type Code G	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3981'
Multiple NO	Proposed Depth MD-8727 TVD-4960'	Formation WOLFCAMP	Contractor BIG DOG DRILLING	Spud Date WHEN APPROVED
Depth to Groundwater 100'+		Distance from nearest fresh water well Approximately 1 Mi South		Distance from nearest surface water FOURMILE DRAW APP. 2 miles South
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M bbls		Drilling Method: Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐		
Closed-Loop System ☐				

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	NA	40'	Redi-mix	Surface
17 1/2"	13 3/8"	48#	350'	400 Sx.	Surface
12 1/2"	9 5/8"	36#	1200'	475 Sx.	Surface
8 3/4 - 7 7/8"	5 1/2"	15.5#	MD-8727' TVD-4960'	600 Sx.	Est. TOC 1000'FS

Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

* Verify by CBL or Temp Survey

NOTES: OCD OF SPUD &
TIME TO WITNESS
CEMENTING OF SURFACE &
INTERMEDIATE CASING

SEE ATTACHED SHEET FOR DETAIL

a H₂S Well Contingency plan is required whenever a public dwelling lies within 1/2 mile of well bore.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Printed name: Joe T. Janica

Title: Agent

E-mail Address: joejanica@valornet.com

Date: 03/15/07

Phone: 505-391-8503

OIL CONSERVATION DIVISION

Approved by:

BRYAN G. ARANT
DISTRICT II GEOLOGIST

Title:

Approval Date: MAR 27 2007

Expiration Date: MAR 27 2008

Conditions of Approval Attached ☐

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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 97415	Pool Name UNDES. FOURMILE DRAW-WOLFCAMP
Property Code	Property Name BIG DOG STATE UNIT	Well Number 211
OGRID No. 218885	Operator Name LCX ENERGY	Elevation 3981'

Surface Location

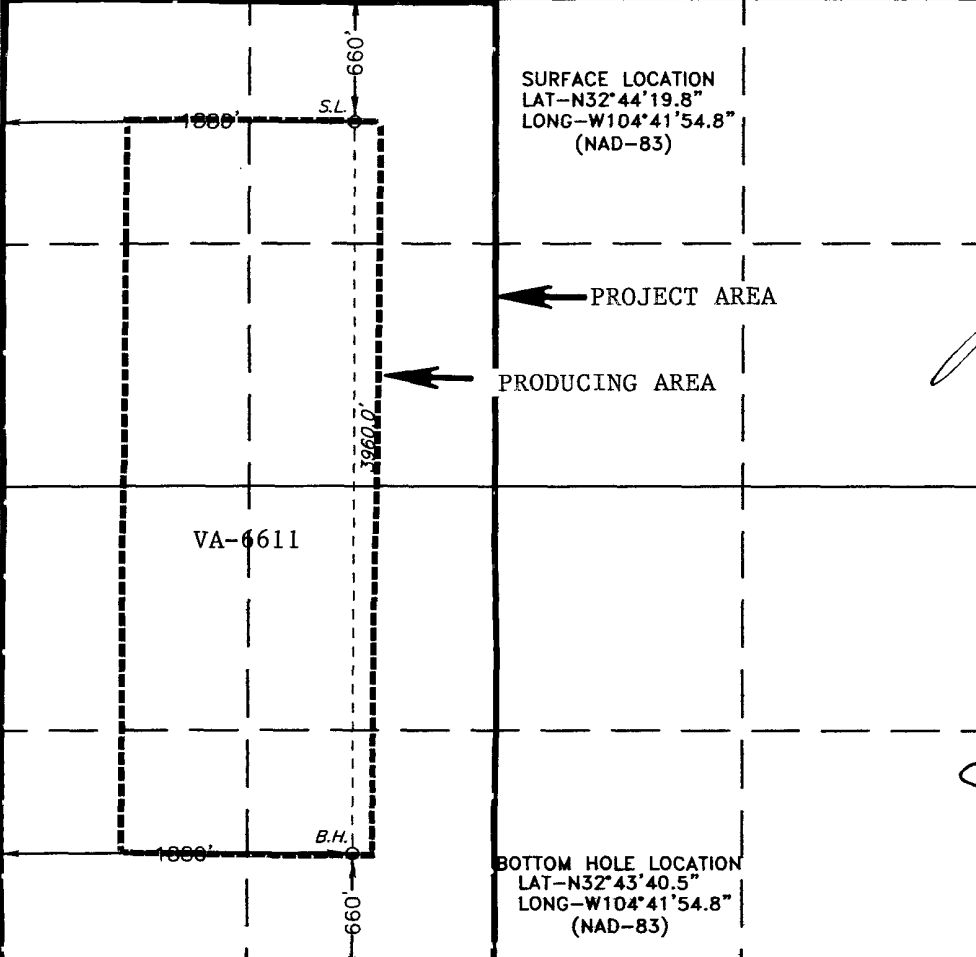
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	18 S	23 E		660	NORTH	1880	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	21	18 S	23 E		660	SOUTH	1880	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

 SURFACE LOCATION LAT-N32°44'19.8" LONG-W104°41'54.8" (NAD-83) PROJECT AREA PRODUCING AREA VA-6611 BOTTOM HOLE LOCATION LAT-N32°43'40.5" LONG-W104°41'54.8" (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Joe T. Janica</i> Signature Date 03/15/07 Joe T. Janica Printed Name Agent SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. FEBRUARY 15, 2007 Date Surveyed Signature & Seal of Professional Surveyor W.O. No. 17769 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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Horizontal Drilling Procedure

(Eddy Co., NM)

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17-1/2" hole to 350'.
3. Drill 12-1/4" hole to 1200'. Run and set 1200' of 9-5/8" 36# J-55 ST&C casing. Cement with 375 sx of 35/65 Poz/C + 5% NaCl + 6% Bentonite, tail in with 100 sx. of Class "C" cement + 2% CaCl, circulate cement to surface.
4. Drill 7-7/8" or 8-3/4" hole to approx. 5000'. Set cement kick-off plug from TD to approx. 4400 ft with 150 sx H + 0.5% dispersant.
5. Dress cement top to desired kick-off point. Drill 7-7/8" curve and land lateral in pay zone (approx. 4900 ft TVD). Pickup lateral drilling assembly with an 8-3/4" or 7-7/8" bit and drill a +/-4000' lateral to 660' from lease line (approx. 4000 ft vertical section).
6. Run and set 5-1/2" 17# N80 or stronger production casing. Cement 5-1/2" with acid soluble cement through the lateral and 400 sx 50/50 Poz/C + 10% gel and tail in with 200 sx C + 200% CaCO₃ (acid soluble cement) + fluid loss additive + retarder (as required), attempting to bring top of cement to 1,000'.

Contingency Strings:

If lost circulation occurs in the surface hole:

- 2a. Run and set 350' of 13-3/8" 48# H-40 ST&C casing. Cement with 200 sx 35/65 Poz/C + 6% gel and tail in with 200 sx of Class "C" cement + 2% CaCl, circulate cement to surface.

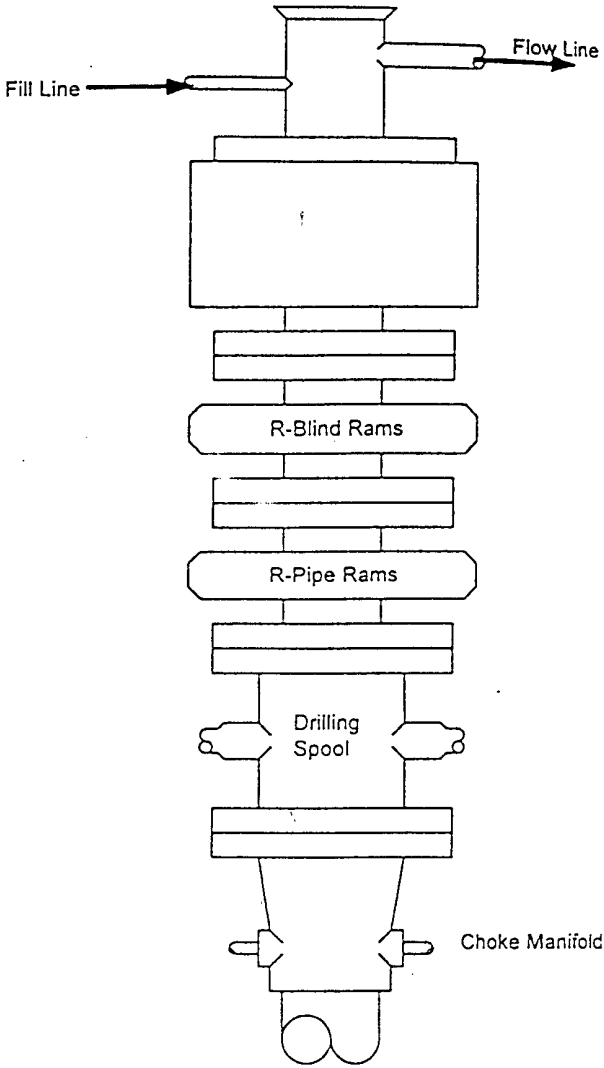
If hole conditions dictate running a 7" contingency string in the 8-3/4" hole :

- 4a. Run approx. 5100 ft 7" 26# J55 or stronger casing to TD. Cement with 700 sx class 'C' cement + add's attempting bringing TOC to approx. 1,000 ft. This may be done in the vertical pilot hole or at the end of the 8-3/4" curve section.
- 4b. Run whipstock and cut a window in the 7" casing (or drill out with 6-1/8" BHA if 7" set at end of curve). Drill to TD.
- 5a. Step 5 will be omitted.
- 6a. Run and set approximately 4400 ft 4-1/2" 11.6# N/L80 liner from TD to approximately 200' above the window/7" casing shoe. Cement with approx. 110 sx C + 200% CaCO₃ (acid soluble cement) + add's attempting to bring TOC above liner top.

FRESH WATER WILL BE USED TO DRILL THE 350' HOLE AND THE 1200' HOLE.

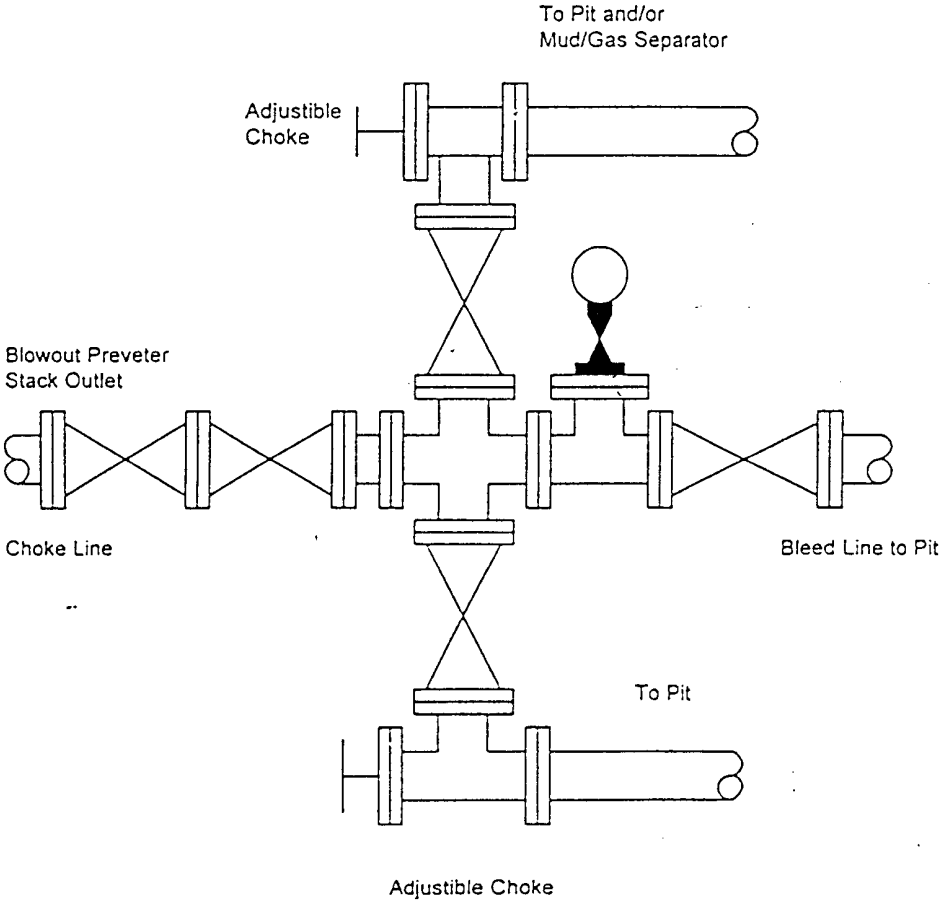
THERE IS NO KNOWN PRESENCE OF ANY H₂S IN THIS AREA. OTHER WELLS DRILLED HAVE NOT ENCOUNTERED ANY HYDROGEN SULFIDE WHILE DRILLING.

BLOWOUT PREVENTER SYSTEM

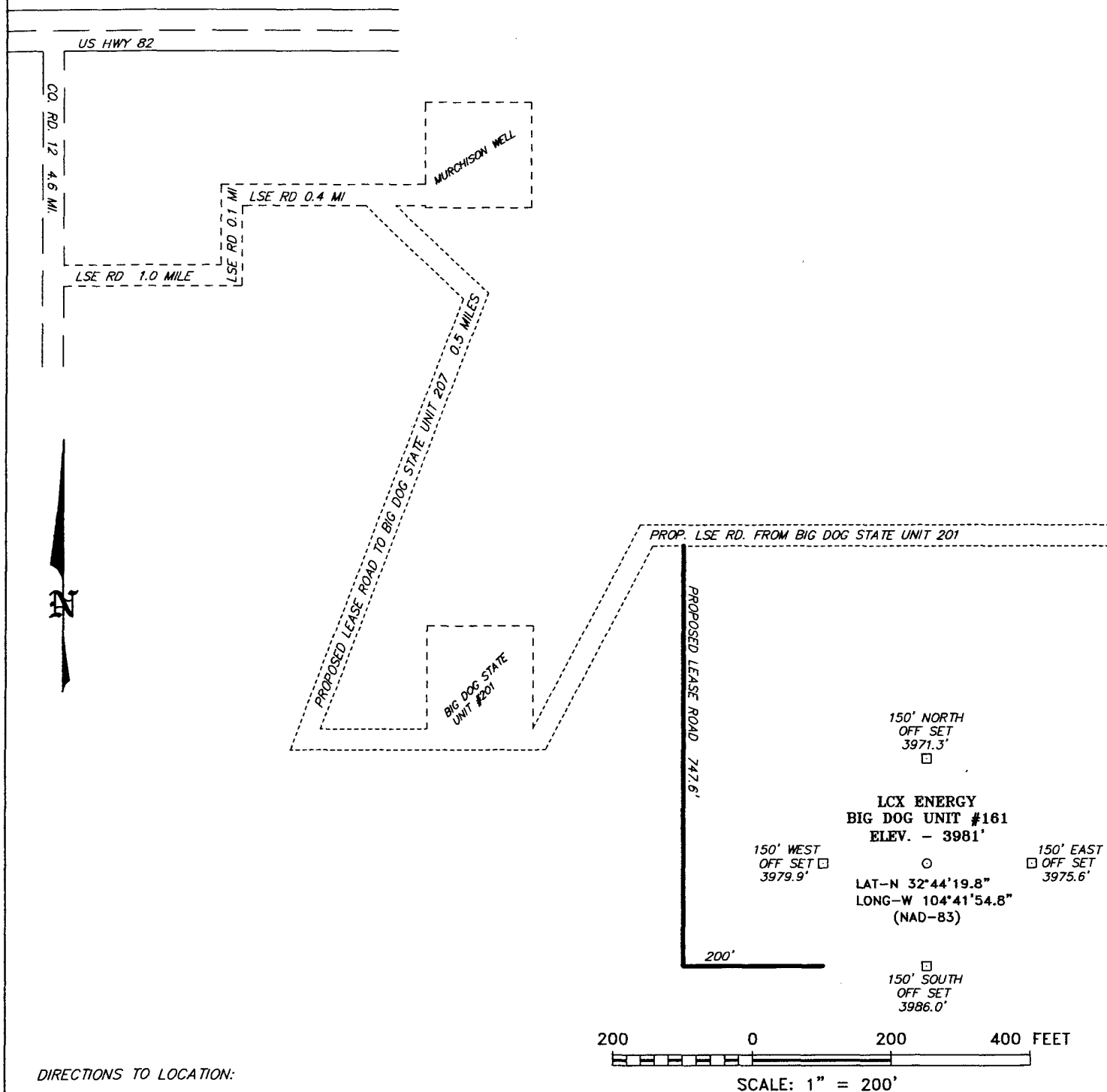


Type 900 Series
3000 psi WP

Choke Manifold Assembly for 3M WP System



SECTION 21, TOWNSHIP 18 SOUTH, RANGE 23 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE HWY MARKER 86 ON US HWY 82, PROCEED WEST APPROX 250' TO CO. RD. 12 (ARMSTRONG), ON CO. RD. 12 PROCEED SOUTH 4.6 MILES TO LEASE ROAD, ON LEASE ROAD PROCEED EAST 1.0 MILE TO LEASE ROAD, THENCE NORTH 0.1 MILE, THENCE EAST 0.4 MILE TO PROPOSED LEASE ROAD TO THE BIG DOG STATE UNIT 201, PROCEED PAST LOCATION FOLLOWING PROPOSED LEASE ROAD TO A LATERAL LEASE ROAD TO THE PROPOSED WELL LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 17763

Drawn By: J. M. SMALL

Date: 02-16-2007

Disk: 17763W

LCX ENERGY

REF: BIG DOG STATE UNIT #211 / Well Pad Topo

THE BIG DOG STATE UNIT No. 211 LOCATED 660' FROM

THE NORTH LINE AND 1880' FROM THE WEST LINE OF

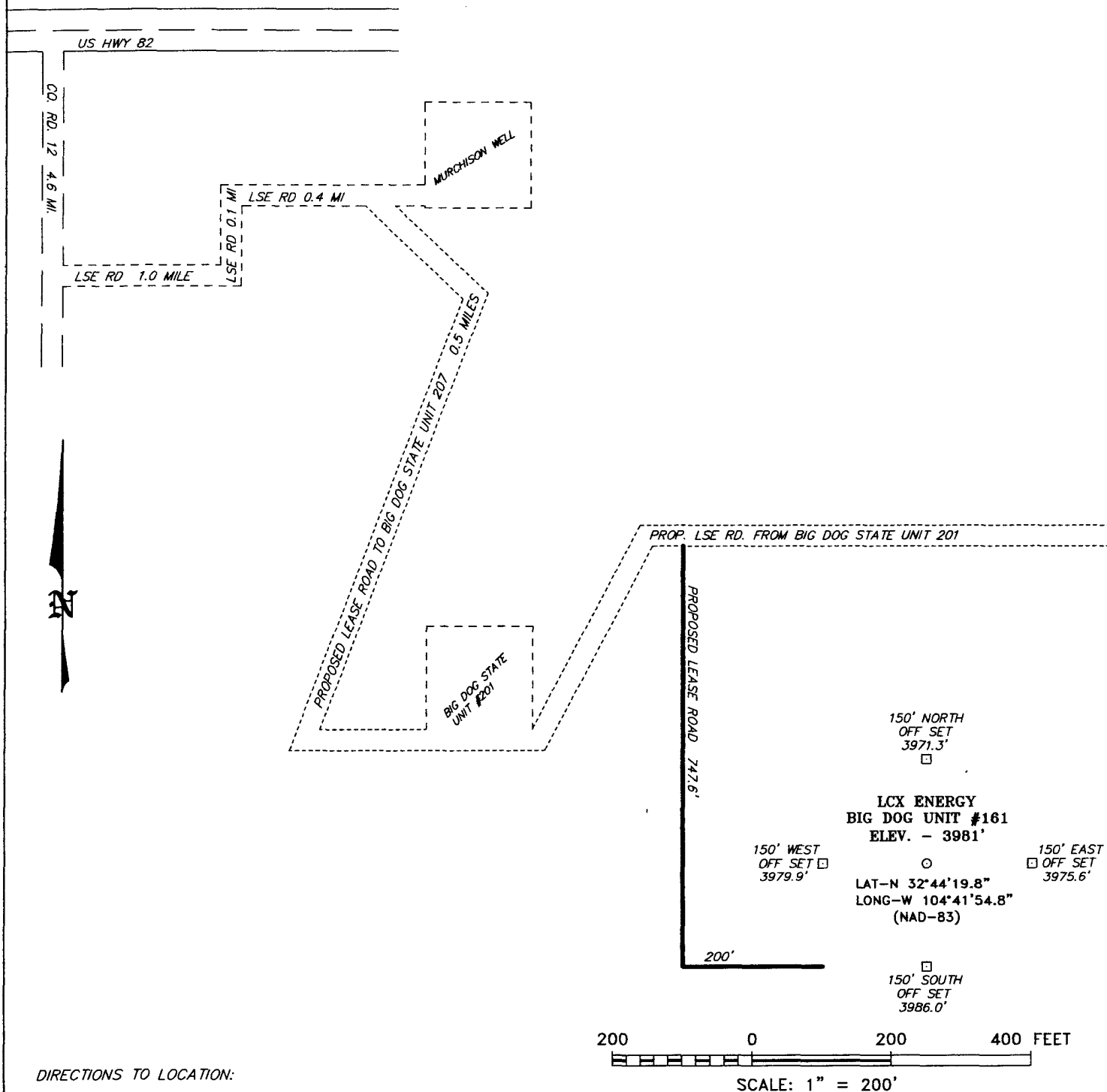
SECTION 21, TOWNSHIP 18 SOUTH, RANGE 23 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-15-2007

Sheet 1 of 1 Sheets

SECTION 21, TOWNSHIP 18 SOUTH, RANGE 23 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE HWY MARKER 86 ON US HWY 82, PROCEED WEST APPROX 250' TO CO. RD. 12 (ARMSTRONG), ON CO. RD. 12 PROCEED SOUTH 4.6 MILES TO LEASE ROAD, ON LEASE ROAD PROCEED EAST 1.0 MILE TO LEASE ROAD, THENCE NORTH 0.1 MILE, THENCE EAST 0.4 MILE TO PROPOSED LEASE ROAD TO THE BIG DOG STATE UNIT 201, PROCEED PAST LOCATION FOLLOWING PROPOSED LEASE ROAD TO A LATERAL LEASE ROAD TO THE PROPOSED WELL LOCATION.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 17763

Drawn By: J. M. SMALL

Date: 02-16-2007

Disk: 17763W

LCX ENERGY

REF: BIG DOG STATE UNIT #211 / Well Pad Topo

THE BIG DOG STATE UNIT No. 211 LOCATED 660' FROM

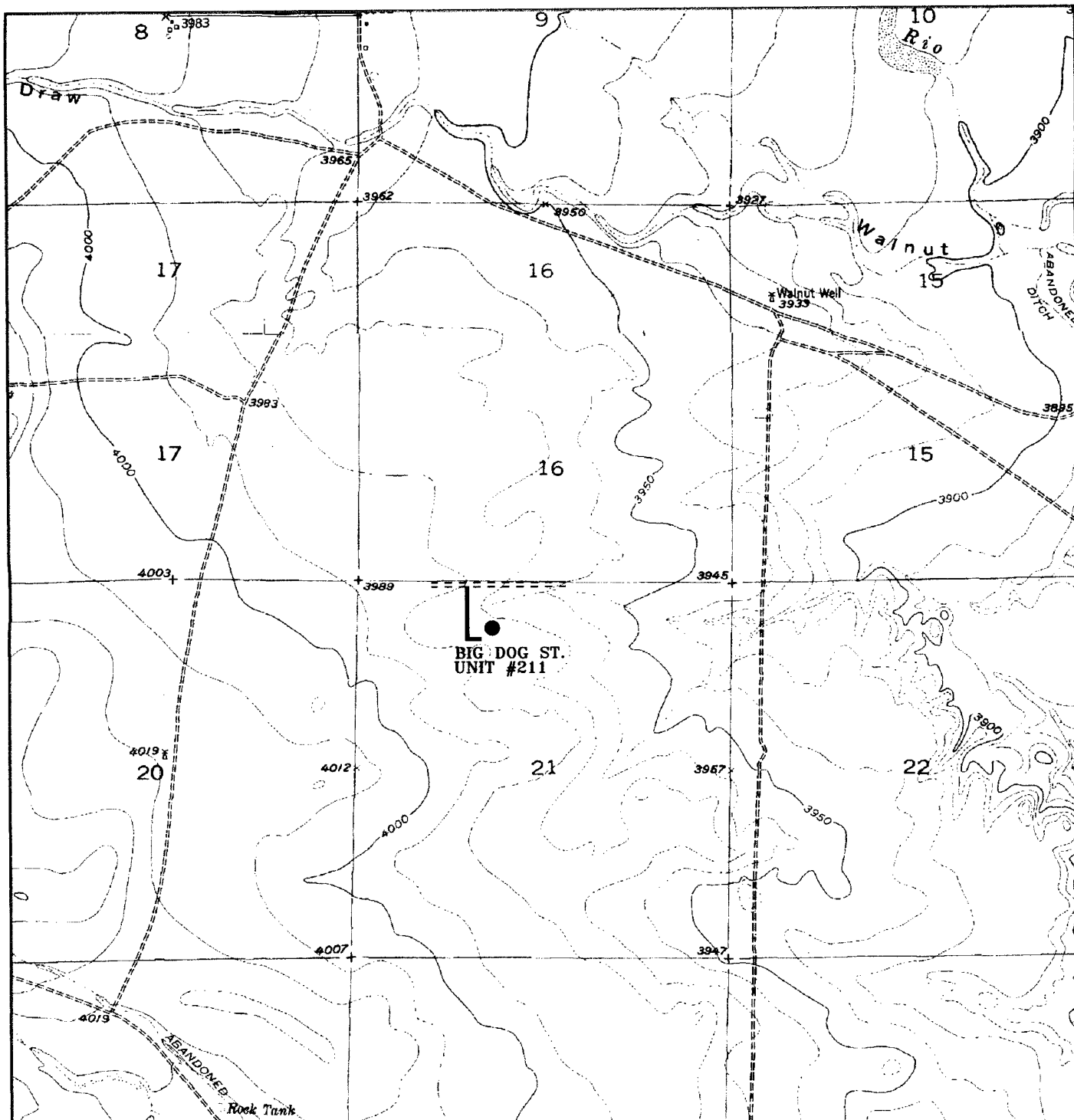
THE NORTH LINE AND 1880' FROM THE WEST LINE OF

SECTION 21, TOWNSHIP 18 SOUTH, RANGE 23 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-15-2007

Sheet 1 of 1 Sheets



THE BIG DOG STATE UNIT #211

Located at 660' FNL and 1880 FWL

Section 21, Township 18 South, Range 23 East,
N.M.P.M., Eddy County, New Mexico.

basin
surveys

focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

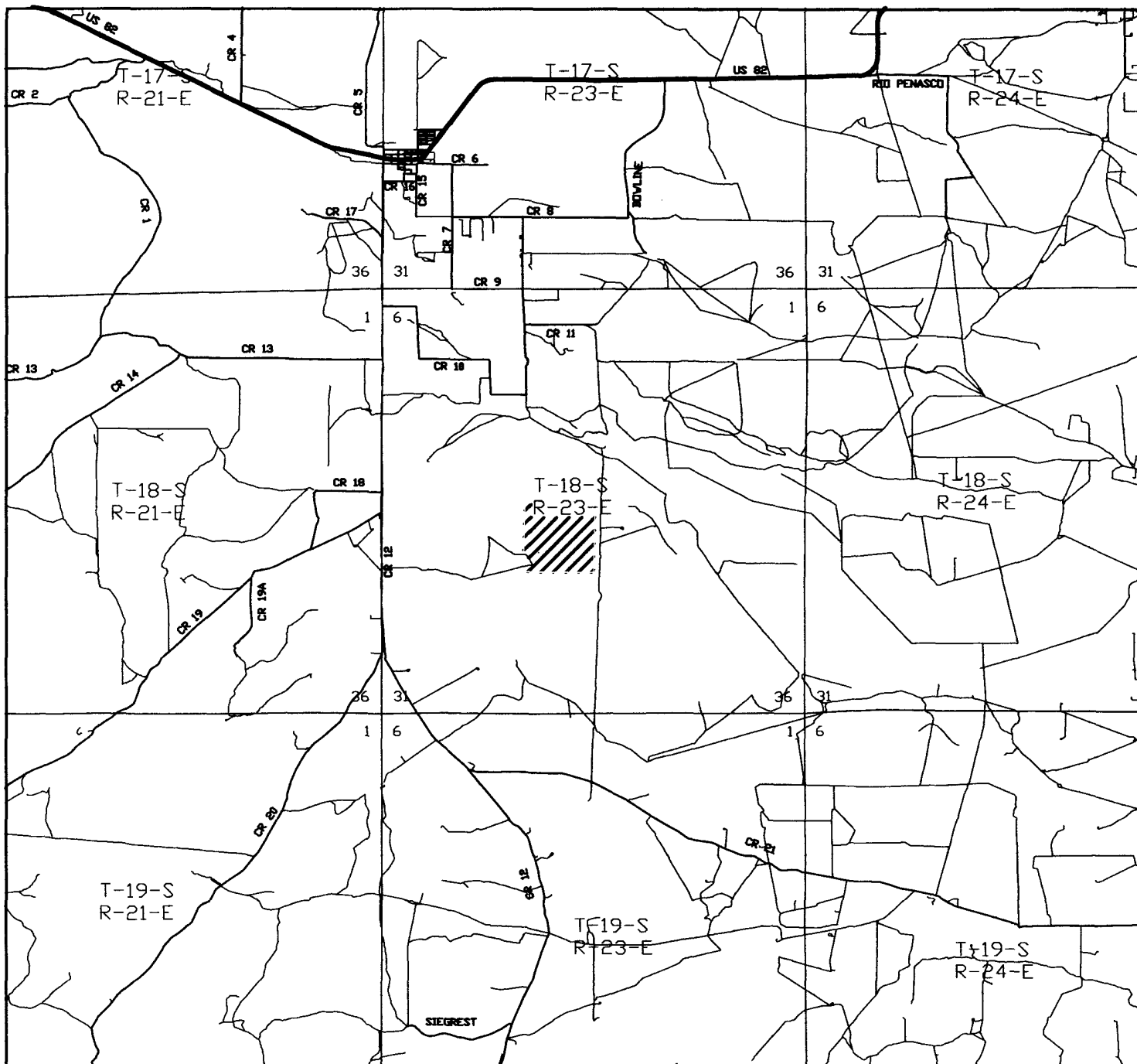
W.C. Number: 175 17200

Survey Order: 02-15-2007

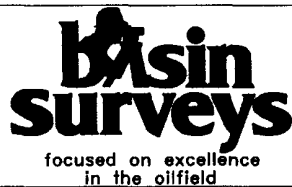
Scale: 1" = 2000'

Date: 02-16-2007

LCX ENERGY



THE LCX - BIG DOG STATE UNIT #211
 Located at 660' FNL and 1880 FWL
 Section 21, Township 18 South, Range 23 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: JMS 17763TR

Survey Date: 02-15-2007

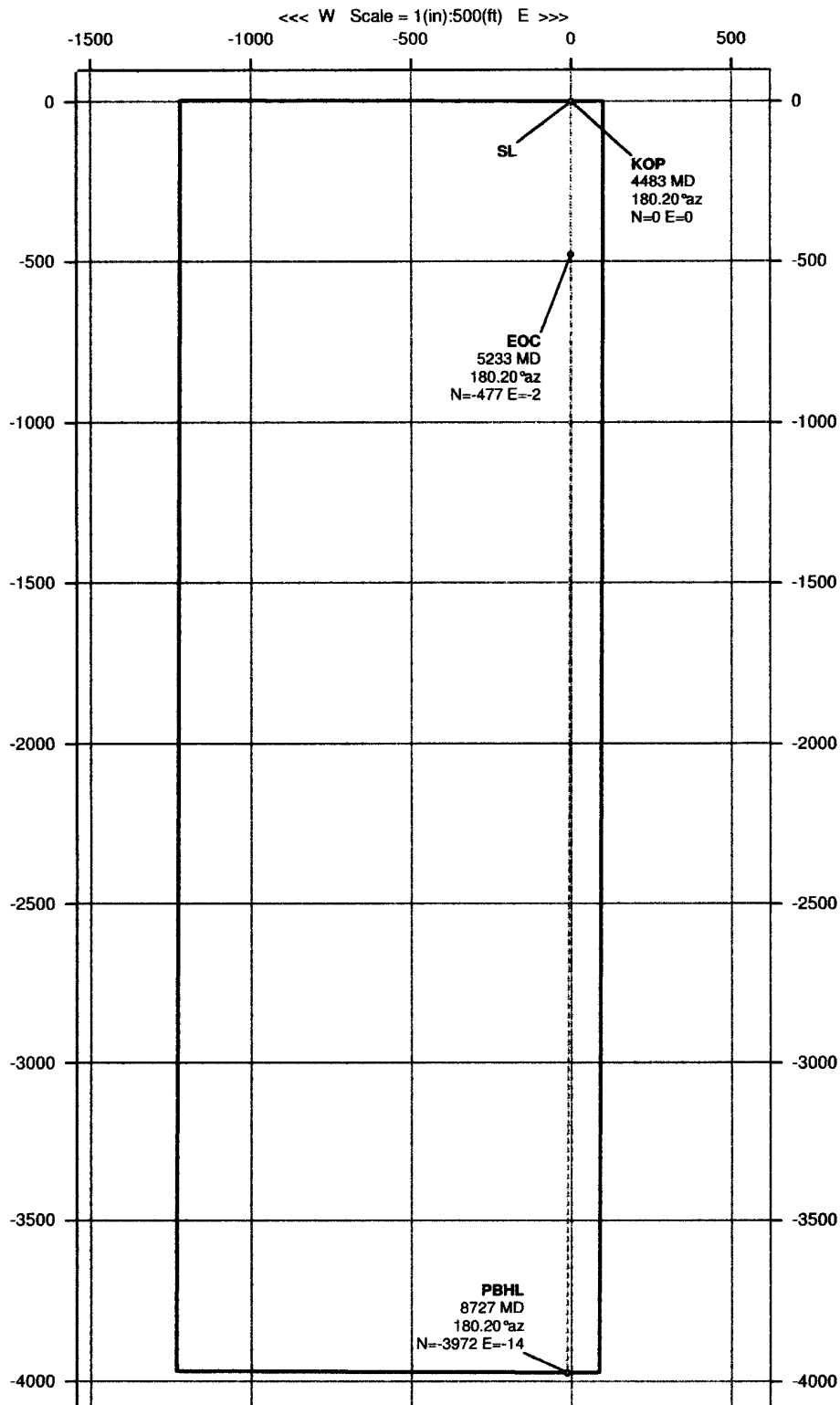
Scale: 1" = 2 MILES

Date: 02-16-2007

LCX
 ENERGY

LCX Energy

WELL	Big Dog State Unit #211	FIELD	Eddy County, NM Nad 83	STRUCTURE	Big Dog State Unit #211
Magnetic Parameters Model: IGRF 2005	Dip: 60.573° Mag Dec: +8.637°	Date: February 21, 2007 FS: 48271.1 m	Surface Location Lat: N35° 44' 18.800" Lon: W104° 41' 54.800"	NADEG New Mexico State Plane, Eastern Zone, US Feet Grid Conv: -0.19751785" Northing: 632712.80 BUS Easting: 428638.90 BUS Scale Factor: 0.999999333	Miscellaneous Skt: Big Dog State Unit #211 Plan: Big Dog State Unit #211 - r1 TVD Ref: RKB (0.00 ft above) Srv Date: February 21, 2007

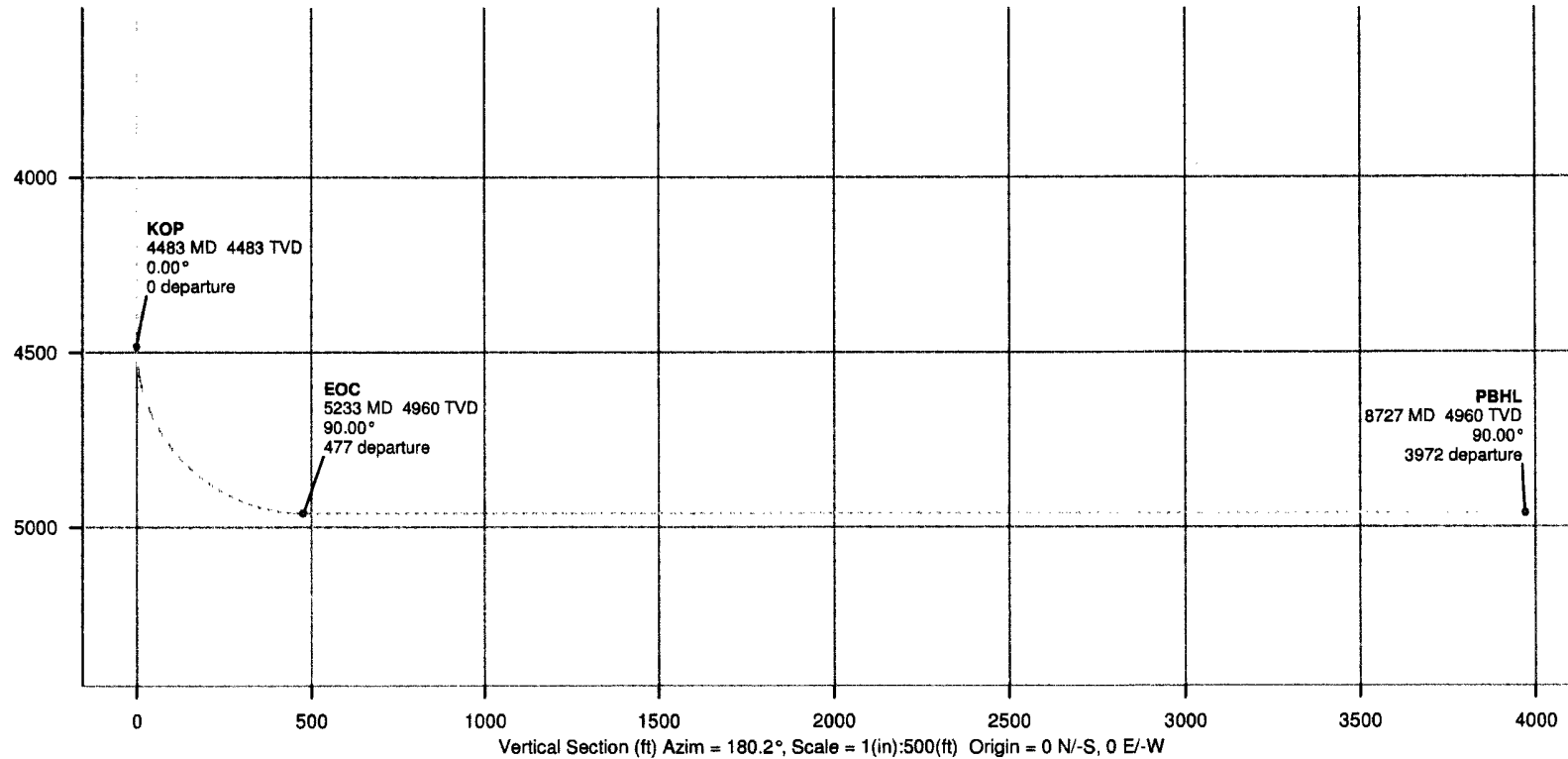


INTREPID
Directional Drilling Specialists



LCX Energy

WELL	Big Dog State Unit #211	FIELD	Eddy County, NM Nad 83	STRUCTURE	Big Dog State Unit #211
Magnetic Parameters Model: IGRF 2005	Dip: 40.573° Mag Dec: +8.837°	Date: February 21, 2007 FS: 49271.1 nT	Surface Location Lat: N32 44 19.800 Lon: W104 41 54.800	NAD83 New Mexico State Plane - Eastern Zone, US Feet Northing: 632712.80 RLUS Easting: 420039.80 RLUS Scale Factor: 0.99999353323	Miscellaneous Well: Big Dog State Unit #211 Plan: Big Dog State Unit #211 - r1 TVD Ref: RKB (0.00 ft above) Srvy Date: February 21, 2007



INTREPID
Directional Drilling Specialists



Proposal

Report Date: February 21, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: LCX Energy	Vertical Section Azimuth: 180.197°
Field: Eddy County, NM Nad 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Big Dog State Unit #211 / Big Dog State Unit #211	TVD Reference Datum: RKB
Well: Big Dog State Unit #211	TVD Reference Elevation: 0.0 ft relative to
Borehole: Big Dog State Unit #211	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.637°
Survey Name / Date: Big Dog State Unit #211_r1 / February 21, 2007	Total Field Strength: 49271.115 nT
Tort / AHD / DDI / ERD ratio: 90.000° / 3971.97 ft / 5.799 / 0.801	Magnetic Dip: 60.573°
Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 21, 2007
Location Lat/Long: N 32 44 19.800, W 104 41 54.800	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 632712.804 ftUS, E 429039.900 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.19751795°	Total Corr Mag North -> Grid North: +8.835°
Grid Scale Factor: 0.99992353	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
Tie-In	0.00	0.00	180.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	20.00	0.00	180.20	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	40.00	0.00	180.20	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	60.00	0.00	180.20	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	80.00	0.00	180.20	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	100.00	0.00	180.20	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	120.00	0.00	180.20	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	140.00	0.00	180.20	140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	160.00	0.00	180.20	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	180.00	0.00	180.20	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	200.00	0.00	180.20	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	220.00	0.00	180.20	220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	240.00	0.00	180.20	240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	260.00	0.00	180.20	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	280.00	0.00	180.20	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	300.00	0.00	180.20	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	320.00	0.00	180.20	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	340.00	0.00	180.20	340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	360.00	0.00	180.20	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	380.00	0.00	180.20	380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	400.00	0.00	180.20	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	420.00	0.00	180.20	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	440.00	0.00	180.20	440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	460.00	0.00	180.20	460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	480.00	0.00	180.20	480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	500.00	0.00	180.20	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	520.00	0.00	180.20	520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	540.00	0.00	180.20	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	560.00	0.00	180.20	560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	580.00	0.00	180.20	580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	600.00	0.00	180.20	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	620.00	0.00	180.20	620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	640.00	0.00	180.20	640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	660.00	0.00	180.20	660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	680.00	0.00	180.20	680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	700.00	0.00	180.20	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	720.00	0.00	180.20	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	740.00	0.00	180.20	740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

[illegible]

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	1840.00	0.00	180.20	1840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1860.00	0.00	180.20	1860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1880.00	0.00	180.20	1880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1900.00	0.00	180.20	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1920.00	0.00	180.20	1920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1940.00	0.00	180.20	1940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1960.00	0.00	180.20	1960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1980.00	0.00	180.20	1980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2000.00	0.00	180.20	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2020.00	0.00	180.20	2020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2040.00	0.00	180.20	2040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2060.00	0.00	180.20	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2080.00	0.00	180.20	2080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2100.00	0.00	180.20	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2120.00	0.00	180.20	2120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2140.00	0.00	180.20	2140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2160.00	0.00	180.20	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2180.00	0.00	180.20	2180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2200.00	0.00	180.20	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2220.00	0.00	180.20	2220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2240.00	0.00	180.20	2240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2260.00	0.00	180.20	2260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2280.00	0.00	180.20	2280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2300.00	0.00	180.20	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2320.00	0.00	180.20	2320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2340.00	0.00	180.20	2340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2360.00	0.00	180.20	2360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2380.00	0.00	180.20	2380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2400.00	0.00	180.20	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2420.00	0.00	180.20	2420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2440.00	0.00	180.20	2440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2460.00	0.00	180.20	2460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2480.00	0.00	180.20	2480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2500.00	0.00	180.20	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2520.00	0.00	180.20	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2540.00	0.00	180.20	2540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2560.00	0.00	180.20	2560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2580.00	0.00	180.20	2580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2600.00	0.00	180.20	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2620.00	0.00	180.20	2620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2640.00	0.00	180.20	2640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2660.00	0.00	180.20	2660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2680.00	0.00	180.20	2680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2700.00	0.00	180.20	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2720.00	0.00	180.20	2720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2740.00	0.00	180.20	2740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2760.00	0.00	180.20	2760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2780.00	0.00	180.20	2780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2800.00	0.00	180.20	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2820.00	0.00	180.20	2820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2840.00	0.00	180.20	2840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2860.00	0.00	180.20	2860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2880.00	0.00	180.20	2880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2900.00	0.00	180.20	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	2920.00	0.00	180.20	2920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2940.00	0.00	180.20	2940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2960.00	0.00	180.20	2960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2980.00	0.00	180.20	2980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3000.00	0.00	180.20	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3020.00	0.00	180.20	3020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3040.00	0.00	180.20	3040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3060.00	0.00	180.20	3060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3080.00	0.00	180.20	3080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3100.00	0.00	180.20	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3120.00	0.00	180.20	3120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3140.00	0.00	180.20	3140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3160.00	0.00	180.20	3160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3180.00	0.00	180.20	3180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3200.00	0.00	180.20	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3220.00	0.00	180.20	3220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3240.00	0.00	180.20	3240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3260.00	0.00	180.20	3260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3280.00	0.00	180.20	3280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3300.00	0.00	180.20	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3320.00	0.00	180.20	3320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3340.00	0.00	180.20	3340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3360.00	0.00	180.20	3360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3380.00	0.00	180.20	3380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3400.00	0.00	180.20	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3420.00	0.00	180.20	3420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3440.00	0.00	180.20	3440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3460.00	0.00	180.20	3460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3480.00	0.00	180.20	3480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3500.00	0.00	180.20	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3520.00	0.00	180.20	3520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3540.00	0.00	180.20	3540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3560.00	0.00	180.20	3560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3580.00	0.00	180.20	3580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3600.00	0.00	180.20	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3620.00	0.00	180.20	3620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3640.00	0.00	180.20	3640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3660.00	0.00	180.20	3660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3680.00	0.00	180.20	3680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3700.00	0.00	180.20	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3720.00	0.00	180.20	3720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3740.00	0.00	180.20	3740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3760.00	0.00	180.20	3760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3780.00	0.00	180.20	3780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3800.00	0.00	180.20	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3820.00	0.00	180.20	3820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3840.00	0.00	180.20	3840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3860.00	0.00	180.20	3860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3880.00	0.00	180.20	3880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3900.00	0.00	180.20	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3920.00	0.00	180.20	3920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3940.00	0.00	180.20	3940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3960.00	0.00	180.20	3960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3980.00	0.00	180.20	3980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)	
KOP	4000.00	0.00	180.20	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4020.00	0.00	180.20	4020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4040.00	0.00	180.20	4040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4060.00	0.00	180.20	4060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4080.00	0.00	180.20	4080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4100.00	0.00	180.20	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4120.00	0.00	180.20	4120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4140.00	0.00	180.20	4140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4160.00	0.00	180.20	4160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4180.00	0.00	180.20	4180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4200.00	0.00	180.20	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4220.00	0.00	180.20	4220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4240.00	0.00	180.20	4240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4260.00	0.00	180.20	4260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4280.00	0.00	180.20	4280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4300.00	0.00	180.20	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4320.00	0.00	180.20	4320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4340.00	0.00	180.20	4340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4360.00	0.00	180.20	4360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4380.00	0.00	180.20	4380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	
	4400.00	0.00	180.20	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4420.00	0.00	180.20	4420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4440.00	0.00	180.20	4440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4460.00	0.00	180.20	4460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4480.00	0.00	180.20	4480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4482.54	0.00	180.20	4482.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.20M
	4500.00	2.10	180.20	4500.00	0.32	-0.32	0.00	0.32	180.20	12.00	12.00	12.00	180.20M
	4520.00	4.50	180.20	4519.96	1.47	-1.47	-0.01	1.47	180.20	12.00	12.00	12.00	180.20M
	4540.00	6.90	180.20	4539.86	3.45	-3.45	-0.01	3.45	180.20	12.00	12.00	12.00	HS
	4560.00	9.30	180.20	4559.66	6.27	-6.27	-0.02	6.27	180.20	12.00	12.00	12.00	HS
	4580.00	11.70	180.20	4579.32	9.91	-9.91	-0.03	9.91	180.20	12.00	12.00	12.00	HS
	4600.00	14.10	180.20	4598.82	14.38	-14.38	-0.05	14.38	180.20	12.00	12.00	12.00	HS
	4620.00	16.50	180.20	4618.11	19.65	-19.65	-0.07	19.65	180.20	12.00	12.00	12.00	HS
	4640.00	18.90	180.20	4637.16	25.73	-25.73	-0.09	25.73	180.20	12.00	12.00	12.00	HS
	4660.00	21.30	180.20	4655.94	32.60	-32.60	-0.11	32.60	180.20	12.00	12.00	12.00	HS
	4680.00	23.70	180.20	4674.42	40.25	-40.25	-0.14	40.25	180.20	12.00	12.00	12.00	HS
	4700.00	26.10	180.20	4692.56	48.67	-48.67	-0.17	48.67	180.20	12.00	12.00	12.00	HS
	4720.00	28.50	180.20	4710.33	57.84	-57.84	-0.20	57.84	180.20	12.00	12.00	12.00	HS
	4740.00	30.90	180.20	4727.70	67.75	-67.75	-0.23	67.75	180.20	12.00	12.00	12.00	HS
	4760.00	33.30	180.20	4744.64	78.38	-78.38	-0.27	78.38	180.20	12.00	12.00	12.00	HS
	4780.00	35.70	180.20	4761.13	89.70	-89.70	-0.31	89.70	180.20	12.00	12.00	12.00	HS
	4800.00	38.10	180.20	4777.12	101.71	-101.71	-0.35	101.71	180.20	12.00	12.00	12.00	HS
	4820.00	40.50	180.20	4792.60	114.37	-114.37	-0.39	114.37	180.20	12.00	12.00	12.00	HS
	4840.00	42.90	180.20	4807.53	127.68	-127.68	-0.44	127.68	180.20	12.00	12.00	12.00	HS
	4860.00	45.30	180.20	4821.89	141.59	-141.59	-0.49	141.59	180.20	12.00	12.00	12.00	HS
	4880.00	47.70	180.20	4835.66	156.10	-156.10	-0.54	156.10	180.20	12.00	12.00	12.00	HS
	4900.00	50.10	180.20	4848.81	171.17	-171.17	-0.59	171.17	180.20	12.00	12.00	12.00	HS
	4920.00	52.50	180.20	4861.31	186.77	-186.77	-0.64	186.77	180.20	12.00	12.00	12.00	HS
	4940.00	54.90	180.20	4873.15	202.89	-202.89	-0.70	202.89	180.20	12.00	12.00	12.00	HS
	4960.00	57.30	180.20	4884.31	219.49	-219.49	-0.76	219.49	180.20	12.00	12.00	12.00	HS
4980.00	59.70	180.20	4894.76	236.54	-236.54	-0.82	236.54	180.20	12.00	12.00	12.00	HS	
5000.00	62.10	180.20	4904.49	254.01	-254.01	-0.88	254.01	180.20	12.00	12.00	12.00	HS	
5020.00	64.50	180.20	4913.47	271.88	-271.88	-0.94	271.88	180.20	12.00	12.00	12.00	HS	
5040.00	66.90	180.20	4921.70	290.11	-290.10	-1.00	290.11	180.20	12.00	12.00	12.00	HS	
5060.00	69.30	180.20	4929.16	308.66	-308.66	-1.06	308.66	180.20	12.00	12.00	12.00	HS	

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	5080.00	71.70	180.20	4935.84	327.51	-327.51	-1.13	327.51	180.20	12.00	12.00	HS
	5100.00	74.10	180.20	4941.72	346.63	-346.62	-1.19	346.63	180.20	12.00	12.00	HS
	5120.00	76.50	180.20	4946.80	365.97	-365.97	-1.26	365.97	180.20	12.00	12.00	HS
	5140.00	78.90	180.20	4951.06	385.51	-385.51	-1.33	385.51	180.20	12.00	12.00	HS
	5160.00	81.30	180.20	4954.50	405.21	-405.21	-1.40	405.21	180.20	12.00	12.00	HS
EOC	5180.00	83.70	180.20	4957.11	425.04	-425.03	-1.47	425.04	180.20	12.00	12.00	HS
	5200.00	86.10	180.20	4958.89	444.95	-444.95	-1.53	444.95	180.20	12.00	12.00	HS
	5220.00	88.50	180.20	4959.84	464.93	-464.93	-1.60	464.93	180.20	12.00	12.00	HS
	5232.54	90.00	180.20	4960.00	477.46	-477.46	-1.65	477.46	180.20	12.00	12.00	---
	5240.00	90.00	180.20	4960.00	484.93	-484.93	-1.67	484.93	180.20	0.00	0.00	---
	5260.00	90.00	180.20	4960.00	504.93	-504.93	-1.74	504.93	180.20	0.00	0.00	---
	5280.00	90.00	180.20	4960.00	524.93	-524.93	-1.81	524.93	180.20	0.00	0.00	---
	5300.00	90.00	180.20	4960.00	544.93	-544.93	-1.88	544.93	180.20	0.00	0.00	---
	5320.00	90.00	180.20	4960.00	564.93	-564.93	-1.95	564.93	180.20	0.00	0.00	---
	5340.00	90.00	180.20	4960.00	584.93	-584.93	-2.02	584.93	180.20	0.00	0.00	---
	5360.00	90.00	180.20	4960.00	604.93	-604.93	-2.09	604.93	180.20	0.00	0.00	---
	5380.00	90.00	180.20	4960.00	624.93	-624.93	-2.15	624.93	180.20	0.00	0.00	---
	5400.00	90.00	180.20	4960.00	644.93	-644.93	-2.22	644.93	180.20	0.00	0.00	---
	5420.00	90.00	180.20	4960.00	664.93	-664.93	-2.29	664.93	180.20	0.00	0.00	---
	5440.00	90.00	180.20	4960.00	684.93	-684.93	-2.36	684.93	180.20	0.00	0.00	---
	5460.00	90.00	180.20	4960.00	704.93	-704.93	-2.43	704.93	180.20	0.00	0.00	---
	5480.00	90.00	180.20	4960.00	724.93	-724.93	-2.50	724.93	180.20	0.00	0.00	---
	5500.00	90.00	180.20	4960.00	744.93	-744.93	-2.57	744.93	180.20	0.00	0.00	---
	5520.00	90.00	180.20	4960.00	764.93	-764.93	-2.64	764.93	180.20	0.00	0.00	---
	5540.00	90.00	180.20	4960.00	784.93	-784.92	-2.71	784.93	180.20	0.00	0.00	---
	5560.00	90.00	180.20	4960.00	804.93	-804.92	-2.77	804.93	180.20	0.00	0.00	---
	5580.00	90.00	180.20	4960.00	824.93	-824.92	-2.84	824.93	180.20	0.00	0.00	---
	5600.00	90.00	180.20	4960.00	844.93	-844.92	-2.91	844.93	180.20	0.00	0.00	---
	5620.00	90.00	180.20	4960.00	864.93	-864.92	-2.98	864.93	180.20	0.00	0.00	---
	5640.00	90.00	180.20	4960.00	884.93	-884.92	-3.05	884.93	180.20	0.00	0.00	---
	5660.00	90.00	180.20	4960.00	904.93	-904.92	-3.12	904.93	180.20	0.00	0.00	---
	5680.00	90.00	180.20	4960.00	924.93	-924.92	-3.19	924.93	180.20	0.00	0.00	---
	5700.00	90.00	180.20	4960.00	944.93	-944.92	-3.26	944.93	180.20	0.00	0.00	---
	5720.00	90.00	180.20	4960.00	964.93	-964.92	-3.33	964.93	180.20	0.00	0.00	---
	5740.00	90.00	180.20	4960.00	984.93	-984.92	-3.39	984.93	180.20	0.00	0.00	---
	5760.00	90.00	180.20	4960.00	1004.93	-1004.92	-3.46	1004.93	180.20	0.00	0.00	---
	5780.00	90.00	180.20	4960.00	1024.93	-1024.92	-3.53	1024.93	180.20	0.00	0.00	---
	5800.00	90.00	180.20	4960.00	1044.93	-1044.92	-3.60	1044.93	180.20	0.00	0.00	---
	5820.00	90.00	180.20	4960.00	1064.93	-1064.92	-3.67	1064.93	180.20	0.00	0.00	---
	5840.00	90.00	180.20	4960.00	1084.93	-1084.92	-3.74	1084.93	180.20	0.00	0.00	---
	5860.00	90.00	180.20	4960.00	1104.93	-1104.92	-3.81	1104.93	180.20	0.00	0.00	---
	5880.00	90.00	180.20	4960.00	1124.93	-1124.92	-3.88	1124.93	180.20	0.00	0.00	---
	5900.00	90.00	180.20	4960.00	1144.93	-1144.92	-3.95	1144.93	180.20	0.00	0.00	---
	5920.00	90.00	180.20	4960.00	1164.93	-1164.92	-4.02	1164.93	180.20	0.00	0.00	---
	5940.00	90.00	180.20	4960.00	1184.93	-1184.92	-4.08	1184.93	180.20	0.00	0.00	---
	5960.00	90.00	180.20	4960.00	1204.93	-1204.92	-4.15	1204.93	180.20	0.00	0.00	---
	5980.00	90.00	180.20	4960.00	1224.93	-1224.92	-4.22	1224.93	180.20	0.00	0.00	---
	6000.00	90.00	180.20	4960.00	1244.93	-1244.92	-4.29	1244.93	180.20	0.00	0.00	---
	6020.00	90.00	180.20	4960.00	1264.93	-1264.92	-4.36	1264.93	180.20	0.00	0.00	---
	6040.00	90.00	180.20	4960.00	1284.93	-1284.92	-4.43	1284.93	180.20	0.00	0.00	---
	6060.00	90.00	180.20	4960.00	1304.93	-1304.92	-4.50	1304.93	180.20	0.00	0.00	---
	6080.00	90.00	180.20	4960.00	1324.93	-1324.92	-4.57	1324.93	180.20	0.00	0.00	---
	6100.00	90.00	180.20	4960.00	1344.93	-1344.92	-4.64	1344.93	180.20	0.00	0.00	---
	6120.00	90.00	180.20	4960.00	1364.93	-1364.92	-4.70	1364.93	180.20	0.00	0.00	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	6140.00	90.00	180.20	4960.00	1384.93	-1384.92	-4.77	1384.93	180.20	0.00	0.00	---
	6160.00	90.00	180.20	4960.00	1404.93	-1404.92	-4.84	1404.93	180.20	0.00	0.00	---
	6180.00	90.00	180.20	4960.00	1424.93	-1424.92	-4.91	1424.93	180.20	0.00	0.00	---
	6200.00	90.00	180.20	4960.00	1444.93	-1444.92	-4.98	1444.93	180.20	0.00	0.00	---
	6220.00	90.00	180.20	4960.00	1464.93	-1464.92	-5.05	1464.93	180.20	0.00	0.00	---
	6240.00	90.00	180.20	4960.00	1484.93	-1484.92	-5.12	1484.93	180.20	0.00	0.00	---
	6260.00	90.00	180.20	4960.00	1504.93	-1504.92	-5.19	1504.93	180.20	0.00	0.00	---
	6280.00	90.00	180.20	4960.00	1524.93	-1524.92	-5.26	1524.93	180.20	0.00	0.00	---
	6300.00	90.00	180.20	4960.00	1544.93	-1544.92	-5.33	1544.93	180.20	0.00	0.00	---
	6320.00	90.00	180.20	4960.00	1564.93	-1564.92	-5.39	1564.93	180.20	0.00	0.00	---
	6340.00	90.00	180.20	4960.00	1584.93	-1584.92	-5.46	1584.93	180.20	0.00	0.00	---
	6360.00	90.00	180.20	4960.00	1604.93	-1604.92	-5.53	1604.93	180.20	0.00	0.00	---
	6380.00	90.00	180.20	4960.00	1624.93	-1624.92	-5.60	1624.93	180.20	0.00	0.00	---
	6400.00	90.00	180.20	4960.00	1644.93	-1644.92	-5.67	1644.93	180.20	0.00	0.00	---
	6420.00	90.00	180.20	4960.00	1664.93	-1664.92	-5.74	1664.93	180.20	0.00	0.00	---
	6440.00	90.00	180.20	4960.00	1684.93	-1684.92	-5.81	1684.93	180.20	0.00	0.00	---
	6460.00	90.00	180.20	4960.00	1704.93	-1704.92	-5.88	1704.93	180.20	0.00	0.00	---
	6480.00	90.00	180.20	4960.00	1724.93	-1724.92	-5.95	1724.93	180.20	0.00	0.00	---
	6500.00	90.00	180.20	4960.00	1744.93	-1744.92	-6.01	1744.93	180.20	0.00	0.00	---
	6520.00	90.00	180.20	4960.00	1764.93	-1764.92	-6.08	1764.93	180.20	0.00	0.00	---
	6540.00	90.00	180.20	4960.00	1784.93	-1784.92	-6.15	1784.93	180.20	0.00	0.00	---
	6560.00	90.00	180.20	4960.00	1804.93	-1804.92	-6.22	1804.93	180.20	0.00	0.00	---
	6580.00	90.00	180.20	4960.00	1824.93	-1824.92	-6.29	1824.93	180.20	0.00	0.00	---
	6600.00	90.00	180.20	4960.00	1844.93	-1844.92	-6.36	1844.93	180.20	0.00	0.00	---
	6620.00	90.00	180.20	4960.00	1864.93	-1864.92	-6.43	1864.93	180.20	0.00	0.00	---
	6640.00	90.00	180.20	4960.00	1884.93	-1884.92	-6.50	1884.93	180.20	0.00	0.00	---
	6660.00	90.00	180.20	4960.00	1904.93	-1904.92	-6.57	1904.93	180.20	0.00	0.00	---
	6680.00	90.00	180.20	4960.00	1924.93	-1924.92	-6.64	1924.93	180.20	0.00	0.00	---
	6700.00	90.00	180.20	4960.00	1944.93	-1944.92	-6.70	1944.93	180.20	0.00	0.00	---
	6720.00	90.00	180.20	4960.00	1964.93	-1964.92	-6.77	1964.93	180.20	0.00	0.00	---
	6740.00	90.00	180.20	4960.00	1984.93	-1984.92	-6.84	1984.93	180.20	0.00	0.00	---
	6760.00	90.00	180.20	4960.00	2004.93	-2004.92	-6.91	2004.93	180.20	0.00	0.00	---
	6780.00	90.00	180.20	4960.00	2024.93	-2024.92	-6.98	2024.93	180.20	0.00	0.00	---
	6800.00	90.00	180.20	4960.00	2044.93	-2044.92	-7.05	2044.93	180.20	0.00	0.00	---
	6820.00	90.00	180.20	4960.00	2064.93	-2064.92	-7.12	2064.93	180.20	0.00	0.00	---
	6840.00	90.00	180.20	4960.00	2084.93	-2084.92	-7.19	2084.93	180.20	0.00	0.00	---
	6860.00	90.00	180.20	4960.00	2104.93	-2104.92	-7.26	2104.93	180.20	0.00	0.00	---
	6880.00	90.00	180.20	4960.00	2124.93	-2124.92	-7.32	2124.93	180.20	0.00	0.00	---
	6900.00	90.00	180.20	4960.00	2144.93	-2144.92	-7.39	2144.93	180.20	0.00	0.00	---
	6920.00	90.00	180.20	4960.00	2164.93	-2164.92	-7.46	2164.93	180.20	0.00	0.00	---
	6940.00	90.00	180.20	4960.00	2184.93	-2184.92	-7.53	2184.93	180.20	0.00	0.00	---
	6960.00	90.00	180.20	4960.00	2204.93	-2204.92	-7.60	2204.93	180.20	0.00	0.00	---
	6980.00	90.00	180.20	4960.00	2224.93	-2224.92	-7.67	2224.93	180.20	0.00	0.00	---
	7000.00	90.00	180.20	4960.00	2244.93	-2244.92	-7.74	2244.93	180.20	0.00	0.00	---
	7020.00	90.00	180.20	4960.00	2264.93	-2264.92	-7.81	2264.93	180.20	0.00	0.00	---
	7040.00	90.00	180.20	4960.00	2284.93	-2284.92	-7.88	2284.93	180.20	0.00	0.00	---
	7060.00	90.00	180.20	4960.00	2304.93	-2304.92	-7.94	2304.93	180.20	0.00	0.00	---
	7080.00	90.00	180.20	4960.00	2324.93	-2324.92	-8.01	2324.93	180.20	0.00	0.00	---
	7100.00	90.00	180.20	4960.00	2344.93	-2344.92	-8.08	2344.93	180.20	0.00	0.00	---
	7120.00	90.00	180.20	4960.00	2364.93	-2364.92	-8.15	2364.93	180.20	0.00	0.00	---
	7140.00	90.00	180.20	4960.00	2384.93	-2384.92	-8.22	2384.93	180.20	0.00	0.00	---
	7160.00	90.00	180.20	4960.00	2404.93	-2404.92	-8.29	2404.93	180.20	0.00	0.00	---
	7180.00	90.00	180.20	4960.00	2424.93	-2424.92	-8.36	2424.93	180.20	0.00	0.00	---
	7200.00	90.00	180.20	4960.00	2444.93	-2444.92	-8.43	2444.93	180.20	0.00	0.00	---

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Build Rate (deg/100 ft)	Mag / Grav Tool Face (deg)
	7220.00	90.00	180.20	4960.00	2464.93	-2464.92	-8.50	2464.93	180.20	0.00	0.00	---
	7240.00	90.00	180.20	4960.00	2484.93	-2484.91	-8.57	2484.93	180.20	0.00	0.00	---
	7260.00	90.00	180.20	4960.00	2504.93	-2504.91	-8.63	2504.93	180.20	0.00	0.00	---
	7280.00	90.00	180.20	4960.00	2524.93	-2524.91	-8.70	2524.93	180.20	0.00	0.00	---
	7300.00	90.00	180.20	4960.00	2544.93	-2544.91	-8.77	2544.93	180.20	0.00	0.00	---
	7320.00	90.00	180.20	4960.00	2564.93	-2564.91	-8.84	2564.93	180.20	0.00	0.00	---
	7340.00	90.00	180.20	4960.00	2584.93	-2584.91	-8.91	2584.93	180.20	0.00	0.00	---
	7360.00	90.00	180.20	4960.00	2604.93	-2604.91	-8.98	2604.93	180.20	0.00	0.00	---
	7380.00	90.00	180.20	4960.00	2624.93	-2624.91	-9.05	2624.93	180.20	0.00	0.00	---
	7400.00	90.00	180.20	4960.00	2644.93	-2644.91	-9.12	2644.93	180.20	0.00	0.00	---
	7420.00	90.00	180.20	4960.00	2664.93	-2664.91	-9.19	2664.93	180.20	0.00	0.00	---
	7440.00	90.00	180.20	4960.00	2684.93	-2684.91	-9.25	2684.93	180.20	0.00	0.00	---
	7460.00	90.00	180.20	4960.00	2704.93	-2704.91	-9.32	2704.93	180.20	0.00	0.00	---
	7480.00	90.00	180.20	4960.00	2724.93	-2724.91	-9.39	2724.93	180.20	0.00	0.00	---
	7500.00	90.00	180.20	4960.00	2744.93	-2744.91	-9.46	2744.93	180.20	0.00	0.00	---
	7520.00	90.00	180.20	4960.00	2764.93	-2764.91	-9.53	2764.93	180.20	0.00	0.00	---
	7540.00	90.00	180.20	4960.00	2784.93	-2784.91	-9.60	2784.93	180.20	0.00	0.00	---
	7560.00	90.00	180.20	4960.00	2804.93	-2804.91	-9.67	2804.93	180.20	0.00	0.00	---
	7580.00	90.00	180.20	4960.00	2824.93	-2824.91	-9.74	2824.93	180.20	0.00	0.00	---
	7600.00	90.00	180.20	4960.00	2844.93	-2844.91	-9.81	2844.93	180.20	0.00	0.00	---
	7620.00	90.00	180.20	4960.00	2864.93	-2864.91	-9.88	2864.93	180.20	0.00	0.00	---
	7640.00	90.00	180.20	4960.00	2884.93	-2884.91	-9.94	2884.93	180.20	0.00	0.00	---
	7660.00	90.00	180.20	4960.00	2904.93	-2904.91	-10.01	2904.93	180.20	0.00	0.00	---
	7680.00	90.00	180.20	4960.00	2924.93	-2924.91	-10.08	2924.93	180.20	0.00	0.00	---
	7700.00	90.00	180.20	4960.00	2944.93	-2944.91	-10.15	2944.93	180.20	0.00	0.00	---
	7720.00	90.00	180.20	4960.00	2964.93	-2964.91	-10.22	2964.93	180.20	0.00	0.00	---
	7740.00	90.00	180.20	4960.00	2984.93	-2984.91	-10.29	2984.93	180.20	0.00	0.00	---
	7760.00	90.00	180.20	4960.00	3004.93	-3004.91	-10.36	3004.93	180.20	0.00	0.00	---
	7780.00	90.00	180.20	4960.00	3024.93	-3024.91	-10.43	3024.93	180.20	0.00	0.00	---
	7800.00	90.00	180.20	4960.00	3044.93	-3044.91	-10.50	3044.93	180.20	0.00	0.00	---
	7820.00	90.00	180.20	4960.00	3064.93	-3064.91	-10.56	3064.93	180.20	0.00	0.00	---
	7840.00	90.00	180.20	4960.00	3084.93	-3084.91	-10.63	3084.93	180.20	0.00	0.00	---
	7860.00	90.00	180.20	4960.00	3104.93	-3104.91	-10.70	3104.93	180.20	0.00	0.00	---
	7880.00	90.00	180.20	4960.00	3124.93	-3124.91	-10.77	3124.93	180.20	0.00	0.00	---
	7900.00	90.00	180.20	4960.00	3144.93	-3144.91	-10.84	3144.93	180.20	0.00	0.00	---
	7920.00	90.00	180.20	4960.00	3164.93	-3164.91	-10.91	3164.93	180.20	0.00	0.00	---
	7940.00	90.00	180.20	4960.00	3184.93	-3184.91	-10.98	3184.93	180.20	0.00	0.00	---
	7960.00	90.00	180.20	4960.00	3204.93	-3204.91	-11.05	3204.93	180.20	0.00	0.00	---
	7980.00	90.00	180.20	4960.00	3224.93	-3224.91	-11.12	3224.93	180.20	0.00	0.00	---
	8000.00	90.00	180.20	4960.00	3244.93	-3244.91	-11.19	3244.93	180.20	0.00	0.00	---
	8020.00	90.00	180.20	4960.00	3264.93	-3264.91	-11.25	3264.93	180.20	0.00	0.00	---
	8040.00	90.00	180.20	4960.00	3284.93	-3284.91	-11.32	3284.93	180.20	0.00	0.00	---
	8060.00	90.00	180.20	4960.00	3304.93	-3304.91	-11.39	3304.93	180.20	0.00	0.00	---
	8080.00	90.00	180.20	4960.00	3324.93	-3324.91	-11.46	3324.93	180.20	0.00	0.00	---
	8100.00	90.00	180.20	4960.00	3344.93	-3344.91	-11.53	3344.93	180.20	0.00	0.00	---
	8120.00	90.00	180.20	4960.00	3364.93	-3364.91	-11.60	3364.93	180.20	0.00	0.00	---
	8140.00	90.00	180.20	4960.00	3384.93	-3384.91	-11.67	3384.93	180.20	0.00	0.00	---
	8160.00	90.00	180.20	4960.00	3404.93	-3404.91	-11.74	3404.93	180.20	0.00	0.00	---
	8180.00	90.00	180.20	4960.00	3424.93	-3424.91	-11.81	3424.93	180.20	0.00	0.00	---
	8200.00	90.00	180.20	4960.00	3444.93	-3444.91	-11.87	3444.93	180.20	0.00	0.00	---
	8220.00	90.00	180.20	4960.00	3464.93	-3464.91	-11.94	3464.93	180.20	0.00	0.00	---
	8240.00	90.00	180.20	4960.00	3484.93	-3484.91	-12.01	3484.93	180.20	0.00	0.00	---
	8260.00	90.00	180.20	4960.00	3504.93	-3504.91	-12.08	3504.93	180.20	0.00	0.00	---
	8280.00	90.00	180.20	4960.00	3524.93	-3524.91	-12.15	3524.93	180.20	0.00	0.00	---

