

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		2 OGRID Number 218885
3 Property Code 36200		4 Property Name 1625 STATE COM.
5 Proposed Pool 1 COTTONWOOD CREEK-WOLFCAMP (GAS) 75250		6 API Number 30 - 015-35414

7 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North-South line	Feet from the	East-West line	County
L	9	16S	25E		1880'	SOUTH	660'	WEST	EDDY

8 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
I	9	16S	25E		1880'	SOUTH	660'	EAST	EDDY

Additional Well Information

10 Work Type Code N	11 Well Type Code G	12 Cable/Rotary ROTARY	13 Lease Type Code S	14 Ground Level Elevation 3502'
15 Multiple NO	16 Proposed Depth MD-8735' TVD-4960'	17 Formation WOLFCAMP	18 Contractor BIG DOG DRILLING	19 Spud Date WHEN APPROVED
Depth to Groundwater 100'+		Distance from nearest fresh water well 3000'+ South Southwest		Distance from nearest surface water Cottonwood creek 1.4 Mi NE
20 Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

21 Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	CONDUCTOR	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-8735'± TVD-4960'±	600 Sx.	* Est. TOC 1000' FS

22 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.

* CBL or Temp Survey Required on Tie back

NOTIFY OCD OF SPUD &
TIME TO WITNESS
CEMENTING OF SURFACE &
INTERMEDIATE CASING

SEE ATTACHED SHEET FOR DETAIL

Has well contingency plan required for APD whenever a public dwelling is within 1/2 mile of well bore

23 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 ☐ .		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: BRYAN G. ARANT	
Title: Agent		DISTRICT II GEOLOGIST	
E-mail Address: joejanica@valornet.com		Approval Date: FEB 06 2007 Expiration: FEB 06 2008	
Date: 02/03/07	Phone: 505-391-8503	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

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 75250	Pool Name COTTONWOOD CREEK-WOLFCAMP
Property Code	Property Name 1625 STATE COM	Well Number 92
OGRID No. 218885	Operator Name LCX ENERGY	Elevation 3502'

Surface Location

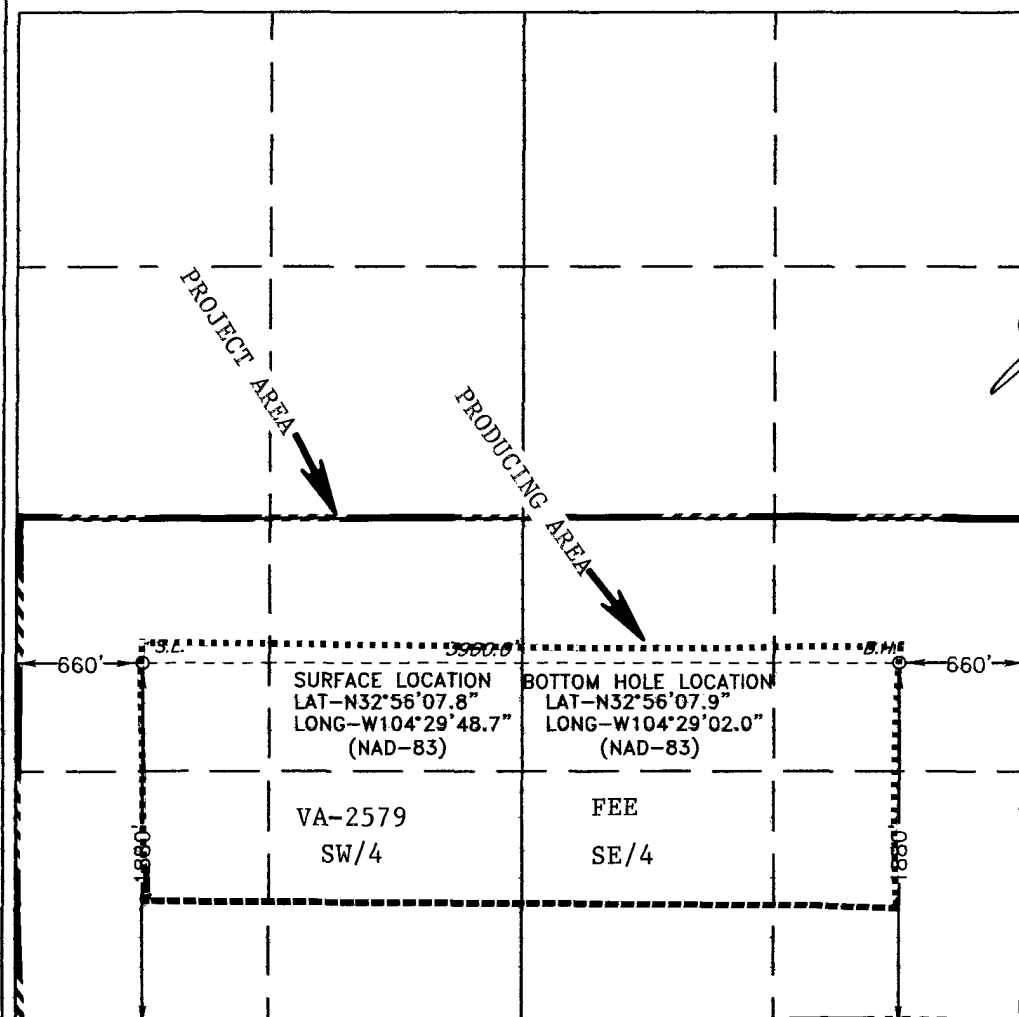
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	9	16 S	25 E		1880	SOUTH	660	WEST	EDDY

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
I	9	16 S	25 E		1880	SOUTH	660	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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

 PROJECT AREA PRODUCING AREA SURFACE LOCATION LAT-N32°56'07.8" LONG-W104°29'48.7" (NAD-83) BOTTOM HOLE LOCATION LAT-N32°56'07.9" LONG-W104°29'02.0" (NAD-83) VA-2579 SW/4 FEE SE/4		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 02/03/07 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. JANUARY 29, 2007 Date Surveyed Signature & Seal of Professional Surveyor W.O. No. 7977 Certificate No. 7977 Jones 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.

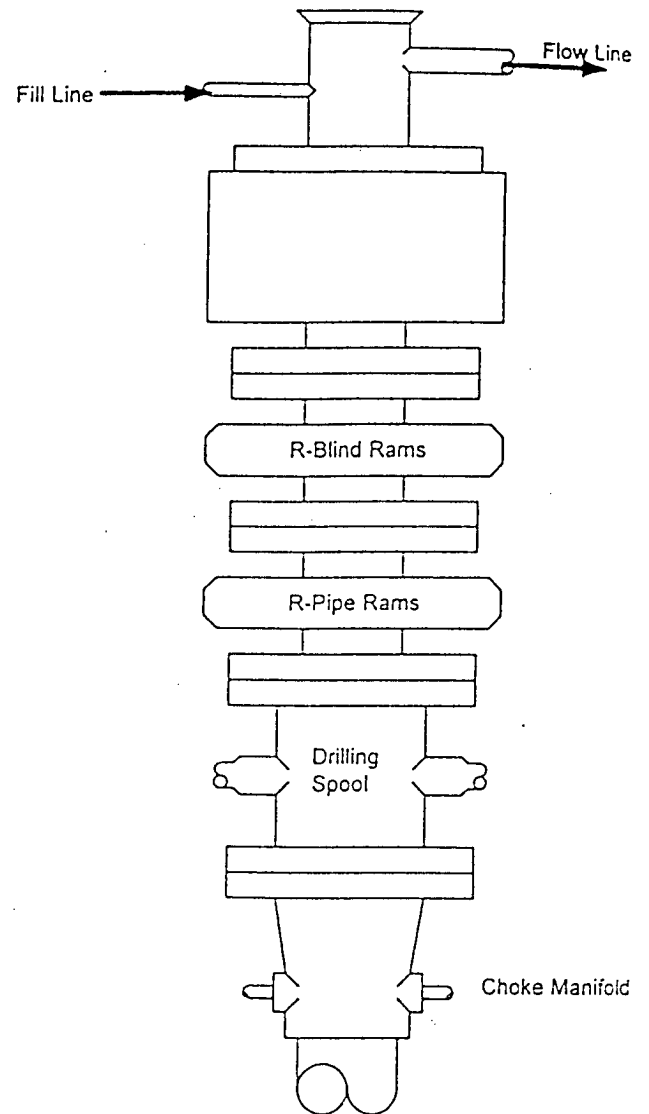
If hole conditions dictate running a 7" contingency string in the 8-3/4" hole :

- 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.

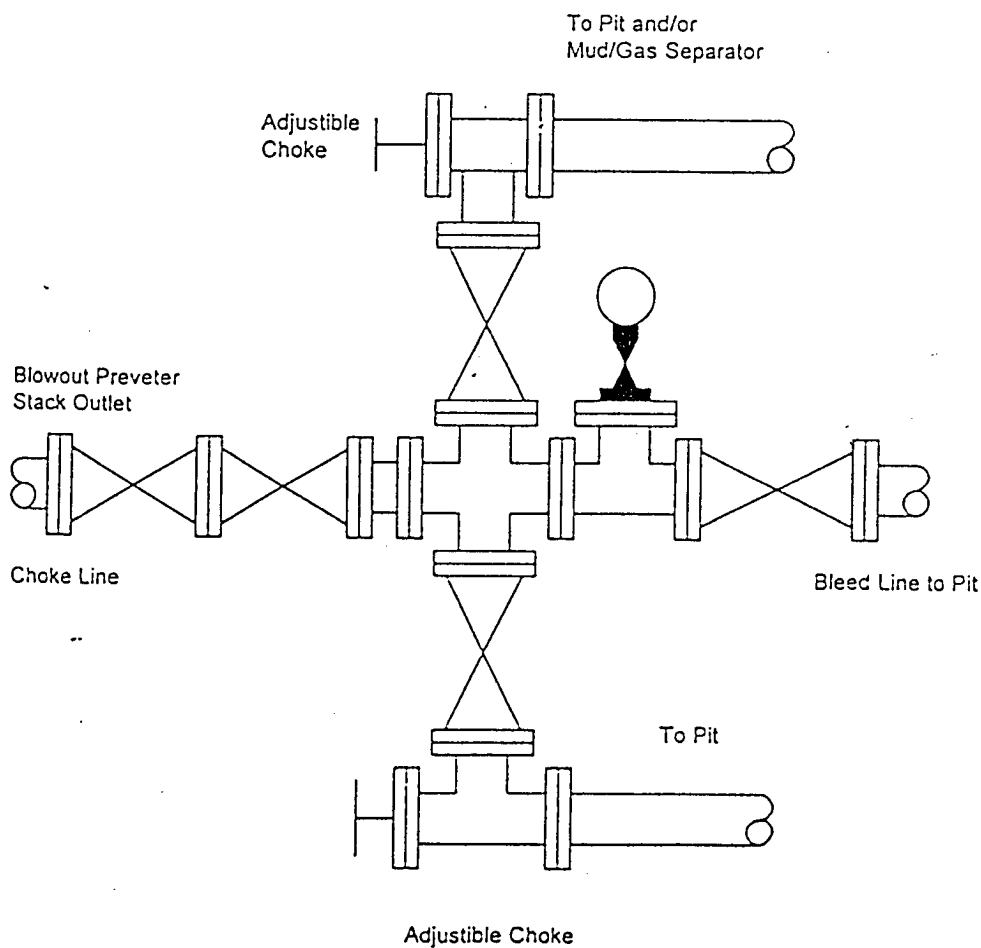
THERE IS NO KNOWN PRESENCE OF ANY H₂S IN THIS AREA. OTHER WELLS DRILLED HAVE NOT ENCOUNTERED ANY HYDROGEN SULFIDE WHILE DRILLING.

BLOWOUT PREVENTER SYSTEM

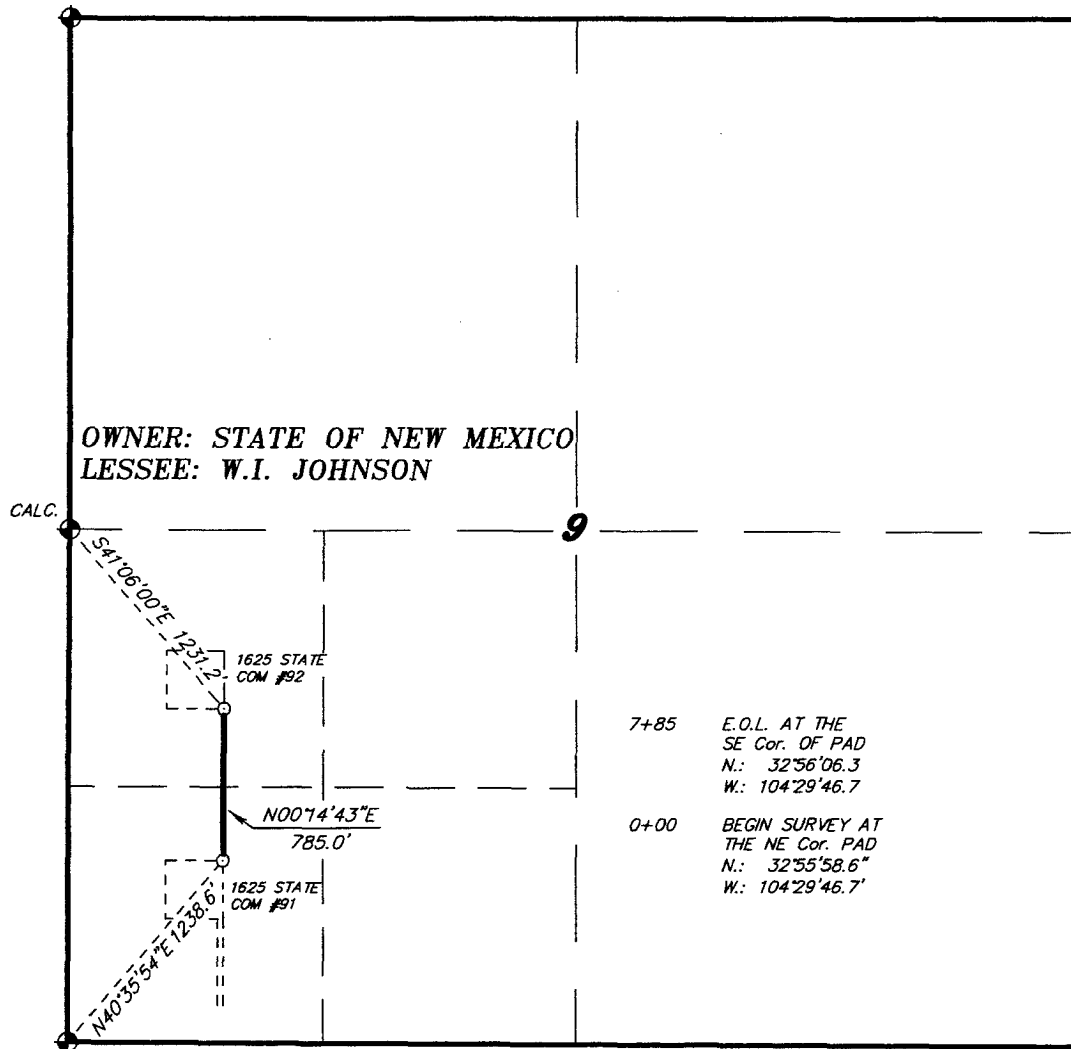


Type 900 Series
3000 psi WP

Choke Manifold Assembly for 3M WP System



SECTION 9, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

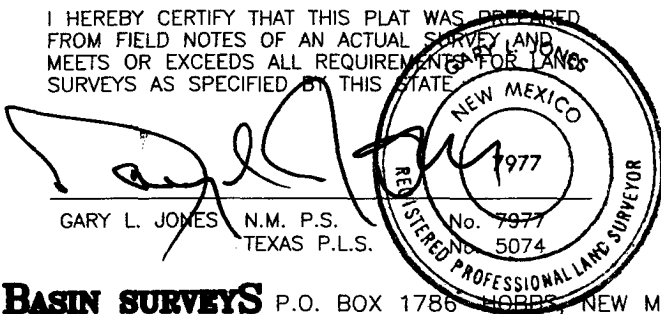


LEGAL DESCRIPTION

A STRIP OF LAND 20.0 FEET WIDE, LOCATED IN SECTION 9, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 10.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY. BEGINNING AT A POINT WHICH LIES N.40°35'54"E., 1238.6 FEET FROM THE SOUTHWEST CORNER OF SAID SECTION 9; THENCE N.00°14'43"E., 785.0 FEET TO THE END OF THIS LINE WHICH LIES S.41°06'00"E., 1231.2 FEET FROM THE WEST QUARTER CORNER OF SAID SECTION 9. SAID STRIP OF LAND BEING 785.0 FEET OR 47.58 RODS IN LENGTH, AND CONTAINING 0.36 ACRES, MORE OR LESS, AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4 = 23.16 RODS = 0.18 ACRES
NW/4 SW/4 = 24.42 RODS = 0.18 ACRES

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE



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

W.O. Number: 17449 Drawn By: J. M. SMALL

Date: 11-29-2006 Disk: JMS 17449R

1000 0 1000 2000 FEET

LCX ENERGY

REF: PROPOSED ROAD TO THE LCX - 1625 STATE COM #92

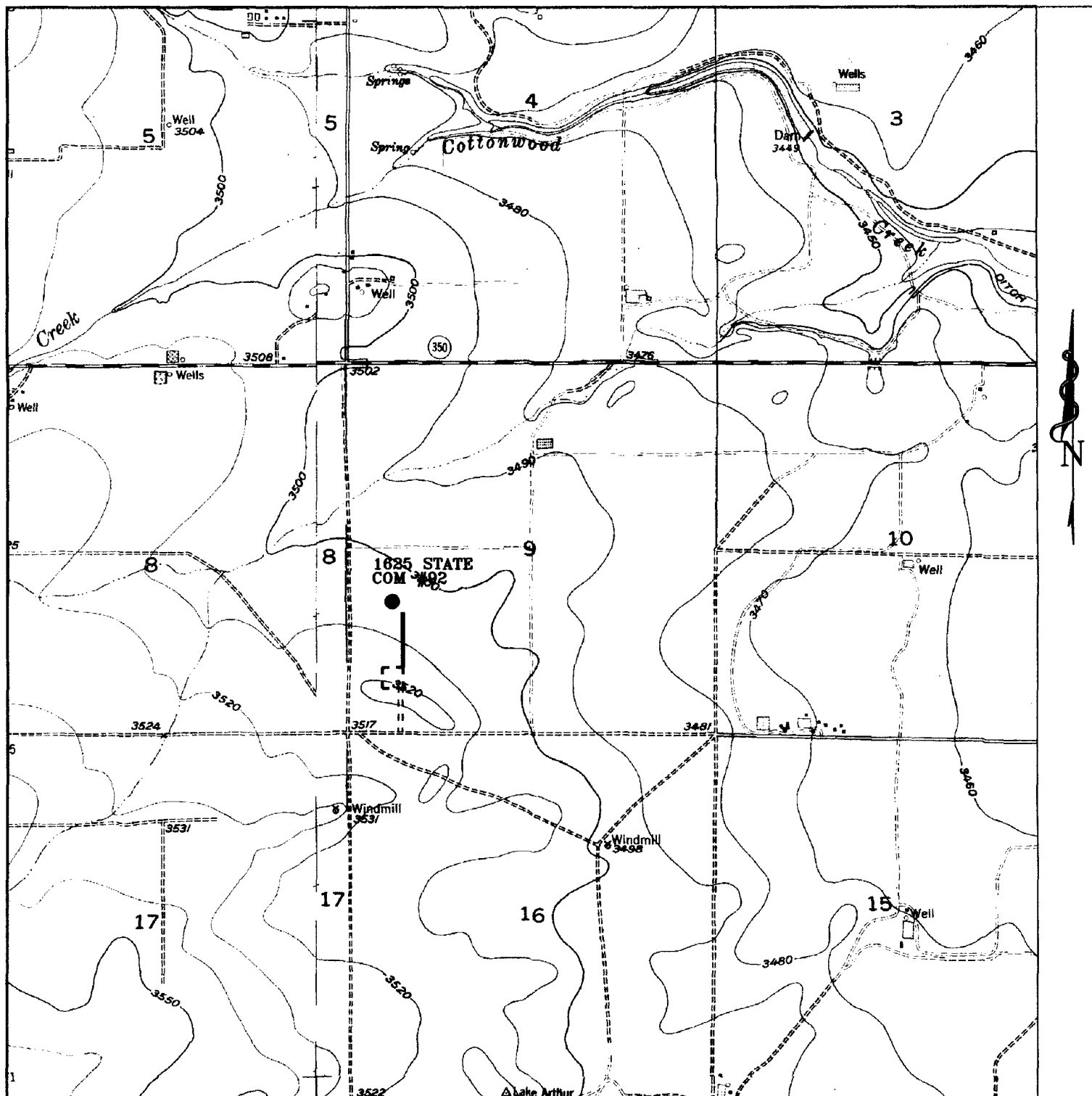
A ROAD CROSSING STATE LAND IN
SECTION 9, TOWNSHIP 16 SOUTH, RANGE 25 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 11-26-2006 Sheet 1 of 1 Sheets

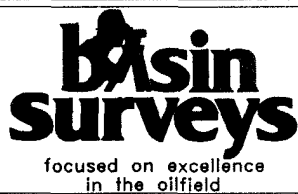
SECTION 9, TOWNSHIP 16 SOUTH, RANGE 25 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

Sheet 1 of 1 Sheets

N



THE LCX 1625 STATE COM #92
 Located at 1880' FSL and 660 FWL
 Section 9, Township 16 South, Range 25 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

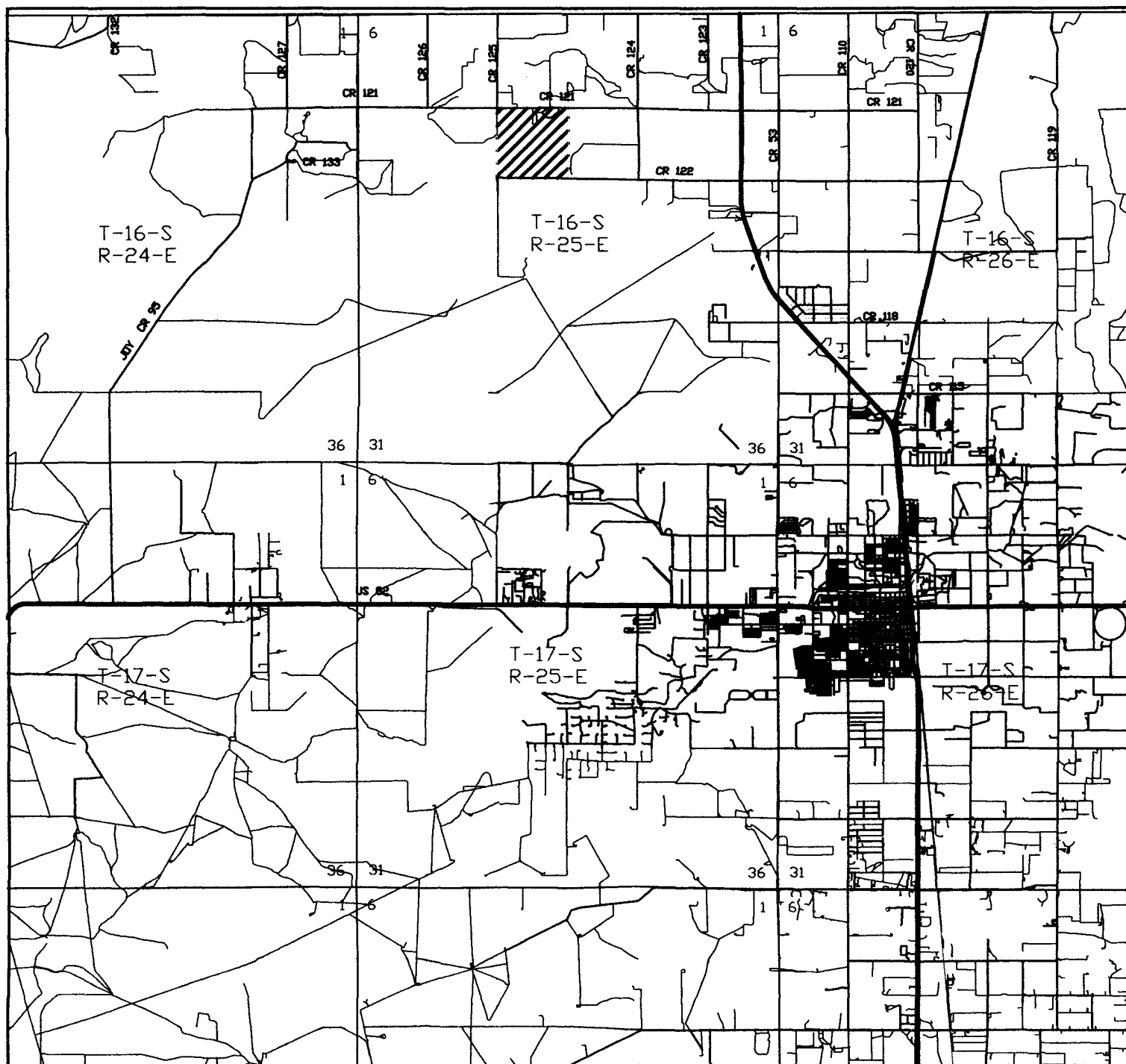
W.O. Number: JMS 17705T

Survey Date: 01-29-2007

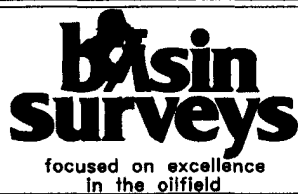
Scale: 1" = 2000'

Date: 01-30-2007

**LCX
 ENEGRY**



THE LCX 1625 STATE COM #92
 Located at 1880' FSL and 660 FWL
 Section 9, Township 16 South, Range 25 East,
 N.M.P.M., Eddy County, New Mexico.



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

W.O. Number: JMS 17705T

Survey Date: 01-29-2007

Scale: 1" = 2 MILES

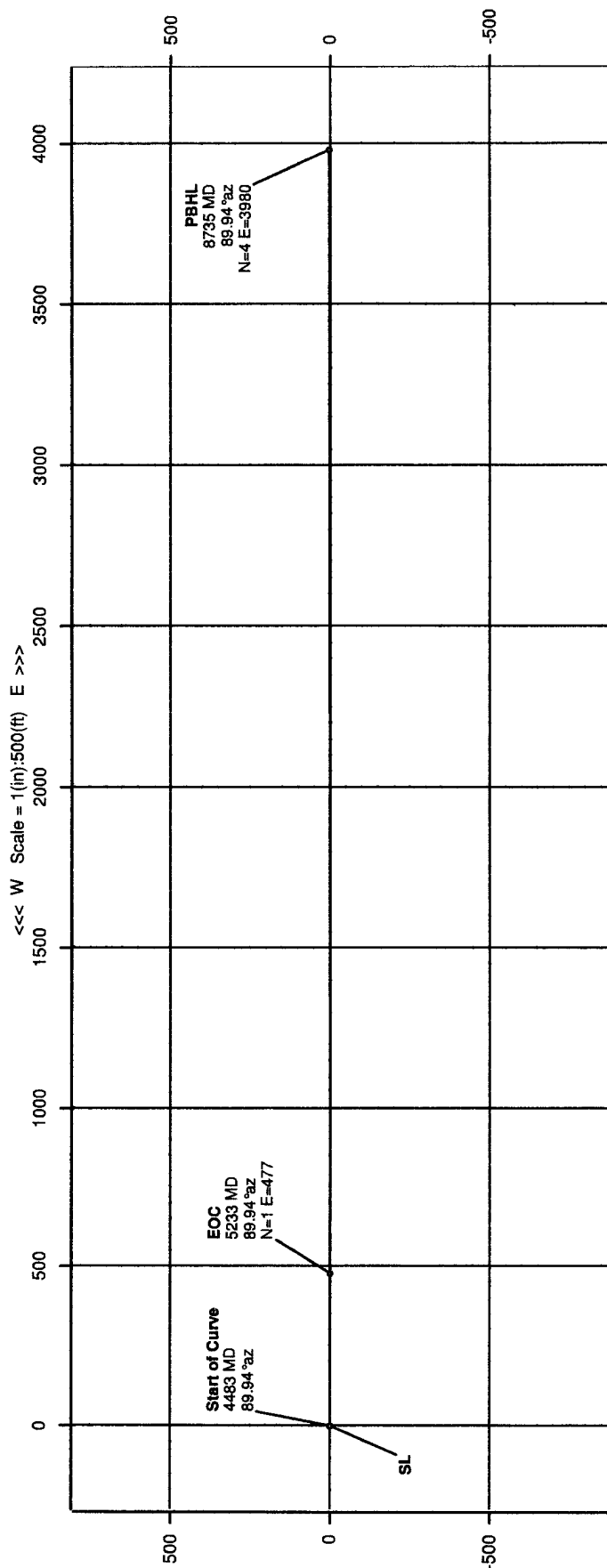
Date: 01-30-2007

LCX
 ENERGY

LCX Energy

WELL	FIELD	STRUCTURE
1625 State Com #92	Eddy County, NM Nad 83	1625 State Com #92

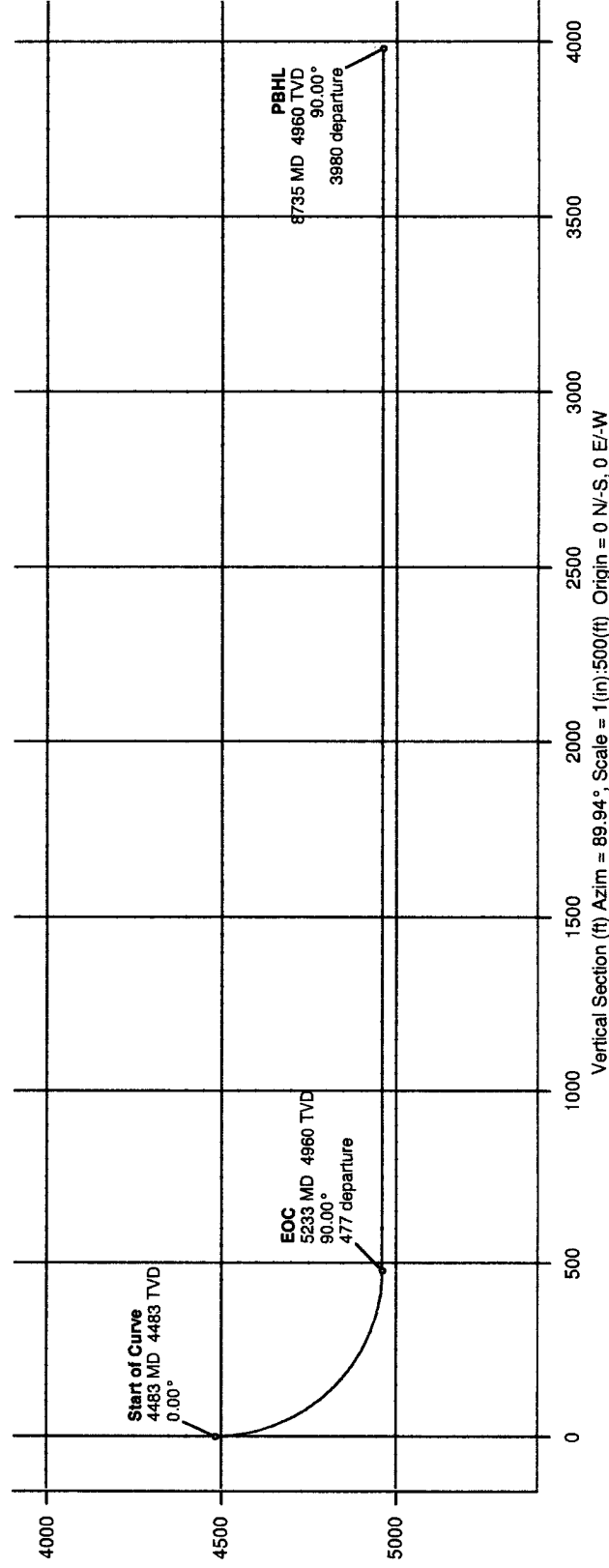
Magnetic Parameters	Surface Location	MDSD New Mexico State Plane, Eastern Zone, US Feet	1625 State Com #92	TYD Ref
Model: IGRF 2005	Date: February 02, 2007	NAD 83 7,800	1625 State Com #92	848 (0.00 & above)
Dip: 60.794°	PS: 44825.2 ft	North: 704165.74 NUB	1625 State Com #92	848
Mag Dec: -48.573°		East: 481157.24 EUB	1625 State Com #92	848
		Scale Fact: 0.9999119732	1625 State Com #92	848
		Scale Unit: 1:1	1625 State Com #92	848
			1625 State Com #92	848



INTREPID
Directional Drilling Specialists

LCX Energy

WELL		1625 State Com #92		FIELD	Eddy County, NM Nad 83		STRUCTURE	1625 State Com #92	
Magnetic Parameters		Date:		Surface Location		Miscellaneous		TVD Ref:	
Model:	KRIF 2005	Dip:	63.754°	February 02, 2007	N22 59 7.800	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Slot:	1625 State Com #92	RKB (0.00 ft above)
		Mag Dec:	-45.573°	44620.5 ft	W104 28 48 700	Grid Conv: -0.00000924°	Plan:	1625 State Com #92 .11	Sky Date: February 02, 2007
						Scale Fact: 0.9999119732			
						Eastng:			



Proposal



Report Date: February 2, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: LCX Energy	Vertical Section Azimuth: 89.940°
Field: Eddy County, NM Nad 83	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: 1625 State Com #92 / 1625 State Com #92	TVD Reference Datum: RKB
Well: 1625 State Com #92	TVD Reference Elevation: 0.0 ft relative to
Borehole: 1625 State Com #92	Sea Bed / Ground Level Elevation: 0.000 ft relative to
UWI/API#:	Magnetic Declination: 8.573°
Survey Name / Date: 1625 State Com #92_r1 / February 2, 2007	Total Field Strength: 49420.174 nT
Tort / AHD / DDI / ERD ratio: 90.000° / 3980.25 ft / 5.800 / 0.802	Magnetic Dip: 60.794°
Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet	Declination Date: February 02, 2007
Location Lat/Long: N 32 56 7.800, W 104 29 48.700	Magnetic Declination Model: IGRF 2005
Location Grid N/E Y/X: N 704108.739 ftUS, E 491167.244 ftUS	North Reference: Grid North
Grid Convergence Angle: -0.08890934°	Total Corr Mag North -> Grid North: +8.662°
Grid Scale Factor: 0.99991197	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	89.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	20.00	0.00	89.94	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	40.00	0.00	89.94	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	60.00	0.00	89.94	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	80.00	0.00	89.94	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	100.00	0.00	89.94	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	120.00	0.00	89.94	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	140.00	0.00	89.94	140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	160.00	0.00	89.94	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	180.00	0.00	89.94	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	200.00	0.00	89.94	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	220.00	0.00	89.94	220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	240.00	0.00	89.94	240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	260.00	0.00	89.94	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	280.00	0.00	89.94	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	300.00	0.00	89.94	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	320.00	0.00	89.94	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	340.00	0.00	89.94	340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	360.00	0.00	89.94	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	380.00	0.00	89.94	380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	400.00	0.00	89.94	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	420.00	0.00	89.94	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	440.00	0.00	89.94	440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	460.00	0.00	89.94	460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	480.00	0.00	89.94	480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	500.00	0.00	89.94	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	520.00	0.00	89.94	520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	540.00	0.00	89.94	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	560.00	0.00	89.94	560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	580.00	0.00	89.94	580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	600.00	0.00	89.94	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	620.00	0.00	89.94	620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	640.00	0.00	89.94	640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	660.00	0.00	89.94	660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	680.00	0.00	89.94	680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	700.00	0.00	89.94	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	720.00	0.00	89.94	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	740.00	0.00	89.94	740.00	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)
	760.00	0.00	89.94	760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	780.00	0.00	89.94	780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	800.00	0.00	89.94	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	820.00	0.00	89.94	820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	840.00	0.00	89.94	840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	860.00	0.00	89.94	860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	880.00	0.00	89.94	880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	900.00	0.00	89.94	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	920.00	0.00	89.94	920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	940.00	0.00	89.94	940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	960.00	0.00	89.94	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	980.00	0.00	89.94	980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1000.00	0.00	89.94	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1020.00	0.00	89.94	1020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1040.00	0.00	89.94	1040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1060.00	0.00	89.94	1060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1080.00	0.00	89.94	1080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1100.00	0.00	89.94	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1120.00	0.00	89.94	1120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1140.00	0.00	89.94	1140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1160.00	0.00	89.94	1160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1180.00	0.00	89.94	1180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1200.00	0.00	89.94	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1220.00	0.00	89.94	1220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1240.00	0.00	89.94	1240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1260.00	0.00	89.94	1260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1280.00	0.00	89.94	1280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1300.00	0.00	89.94	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1320.00	0.00	89.94	1320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1340.00	0.00	89.94	1340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1360.00	0.00	89.94	1360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1380.00	0.00	89.94	1380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1400.00	0.00	89.94	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1420.00	0.00	89.94	1420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1440.00	0.00	89.94	1440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1460.00	0.00	89.94	1460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1480.00	0.00	89.94	1480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1500.00	0.00	89.94	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1520.00	0.00	89.94	1520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1540.00	0.00	89.94	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1560.00	0.00	89.94	1560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1580.00	0.00	89.94	1580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1600.00	0.00	89.94	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1620.00	0.00	89.94	1620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1640.00	0.00	89.94	1640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1660.00	0.00	89.94	1660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1680.00	0.00	89.94	1680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1700.00	0.00	89.94	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1720.00	0.00	89.94	1720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1740.00	0.00	89.94	1740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1760.00	0.00	89.94	1760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1780.00	0.00	89.94	1780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1800.00	0.00	89.94	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1820.00	0.00	89.94	1820.00	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)
	1840.00	0.00	89.94	1840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1860.00	0.00	89.94	1860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1880.00	0.00	89.94	1880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1900.00	0.00	89.94	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1920.00	0.00	89.94	1920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1940.00	0.00	89.94	1940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1960.00	0.00	89.94	1960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1980.00	0.00	89.94	1980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2000.00	0.00	89.94	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2020.00	0.00	89.94	2020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2040.00	0.00	89.94	2040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2060.00	0.00	89.94	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2080.00	0.00	89.94	2080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2100.00	0.00	89.94	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2120.00	0.00	89.94	2120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2140.00	0.00	89.94	2140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2160.00	0.00	89.94	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2180.00	0.00	89.94	2180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2200.00	0.00	89.94	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2220.00	0.00	89.94	2220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2240.00	0.00	89.94	2240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2260.00	0.00	89.94	2260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2280.00	0.00	89.94	2280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2300.00	0.00	89.94	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2320.00	0.00	89.94	2320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2340.00	0.00	89.94	2340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2360.00	0.00	89.94	2360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2380.00	0.00	89.94	2380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2400.00	0.00	89.94	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2420.00	0.00	89.94	2420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2440.00	0.00	89.94	2440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2460.00	0.00	89.94	2460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2480.00	0.00	89.94	2480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2500.00	0.00	89.94	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2520.00	0.00	89.94	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2540.00	0.00	89.94	2540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2560.00	0.00	89.94	2560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2580.00	0.00	89.94	2580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2600.00	0.00	89.94	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2620.00	0.00	89.94	2620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2640.00	0.00	89.94	2640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2660.00	0.00	89.94	2660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2680.00	0.00	89.94	2680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2700.00	0.00	89.94	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2720.00	0.00	89.94	2720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2740.00	0.00	89.94	2740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2760.00	0.00	89.94	2760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2780.00	0.00	89.94	2780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2800.00	0.00	89.94	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2820.00	0.00	89.94	2820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2840.00	0.00	89.94	2840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2860.00	0.00	89.94	2860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2880.00	0.00	89.94	2880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2900.00	0.00	89.94	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	89.94	2920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2940.00	0.00	89.94	2940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2960.00	0.00	89.94	2960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2980.00	0.00	89.94	2980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3000.00	0.00	89.94	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3020.00	0.00	89.94	3020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3040.00	0.00	89.94	3040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3060.00	0.00	89.94	3060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3080.00	0.00	89.94	3080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3100.00	0.00	89.94	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3120.00	0.00	89.94	3120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3140.00	0.00	89.94	3140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3160.00	0.00	89.94	3160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3180.00	0.00	89.94	3180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3200.00	0.00	89.94	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3220.00	0.00	89.94	3220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3240.00	0.00	89.94	3240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3260.00	0.00	89.94	3260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3280.00	0.00	89.94	3280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3300.00	0.00	89.94	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3320.00	0.00	89.94	3320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3340.00	0.00	89.94	3340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3360.00	0.00	89.94	3360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3380.00	0.00	89.94	3380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3400.00	0.00	89.94	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3420.00	0.00	89.94	3420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3440.00	0.00	89.94	3440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3460.00	0.00	89.94	3460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3480.00	0.00	89.94	3480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3500.00	0.00	89.94	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3520.00	0.00	89.94	3520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3540.00	0.00	89.94	3540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3560.00	0.00	89.94	3560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3580.00	0.00	89.94	3580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3600.00	0.00	89.94	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3620.00	0.00	89.94	3620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3640.00	0.00	89.94	3640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3660.00	0.00	89.94	3660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3680.00	0.00	89.94	3680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3700.00	0.00	89.94	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3720.00	0.00	89.94	3720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3740.00	0.00	89.94	3740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3760.00	0.00	89.94	3760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3780.00	0.00	89.94	3780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3800.00	0.00	89.94	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3820.00	0.00	89.94	3820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3840.00	0.00	89.94	3840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3860.00	0.00	89.94	3860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3880.00	0.00	89.94	3880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3900.00	0.00	89.94	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3920.00	0.00	89.94	3920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3940.00	0.00	89.94	3940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3960.00	0.00	89.94	3960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3980.00	0.00	89.94	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)
	4000.00	0.00	89.94	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4020.00	0.00	89.94	4020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4040.00	0.00	89.94	4040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4060.00	0.00	89.94	4060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4080.00	0.00	89.94	4080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4100.00	0.00	89.94	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4120.00	0.00	89.94	4120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4140.00	0.00	89.94	4140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4160.00	0.00	89.94	4160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4180.00	0.00	89.94	4180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4200.00	0.00	89.94	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4220.00	0.00	89.94	4220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4240.00	0.00	89.94	4240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4260.00	0.00	89.94	4260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4280.00	0.00	89.94	4280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4300.00	0.00	89.94	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4320.00	0.00	89.94	4320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4340.00	0.00	89.94	4340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4360.00	0.00	89.94	4360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4380.00	0.00	89.94	4380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4400.00	0.00	89.94	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4420.00	0.00	89.94	4420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4440.00	0.00	89.94	4440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4460.00	0.00	89.94	4460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4480.00	0.00	89.94	4480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
Start of Curve	4482.54	0.00	89.94	4482.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	89.94M
	4500.00	2.10	89.94	4500.00	0.32	0.00	0.32	0.32	89.94	12.00	12.00	89.94M
	4520.00	4.50	89.94	4519.96	1.47	0.00	1.47	1.47	89.94	12.00	12.00	89.94M
	4540.00	6.90	89.94	4539.86	3.45	0.00	3.45	3.45	89.94	12.00	12.00	HS
	4560.00	9.30	89.94	4559.66	6.27	0.01	6.27	6.27	89.94	12.00	12.00	HS
	4580.00	11.70	89.94	4579.32	9.91	0.01	9.91	9.91	89.94	12.00	12.00	HS
	4600.00	14.10	89.94	4598.82	14.38	0.02	14.38	14.38	89.94	12.00	12.00	HS
	4620.00	16.50	89.94	4618.11	19.65	0.02	19.65	19.65	89.94	12.00	12.00	HS
	4640.00	18.90	89.94	4637.16	25.73	0.03	25.73	25.73	89.94	12.00	12.00	HS
	4660.00	21.30	89.94	4655.94	32.60	0.03	32.60	32.60	89.94	12.00	12.00	HS
	4680.00	23.70	89.94	4674.42	40.25	0.04	40.25	40.25	89.94	12.00	12.00	HS
	4700.00	26.10	89.94	4692.56	48.67	0.05	48.67	48.67	89.94	12.00	12.00	HS
	4720.00	28.50	89.94	4710.33	57.84	0.06	57.84	57.84	89.94	12.00	12.00	HS
	4740.00	30.90	89.94	4727.70	67.75	0.07	67.75	67.75	89.94	12.00	12.00	HS
	4760.00	33.30	89.94	4744.64	78.38	0.08	78.38	78.38	89.94	12.00	12.00	HS
	4780.00	35.70	89.94	4761.13	89.70	0.09	89.70	89.70	89.94	12.00	12.00	HS
	4800.00	38.10	89.94	4777.12	101.71	0.11	101.71	101.71	89.94	12.00	12.00	HS
	4820.00	40.50	89.94	4792.60	114.37	0.12	114.37	114.37	89.94	12.00	12.00	HS
	4840.00	42.90	89.94	4807.53	127.68	0.13	127.68	127.68	89.94	12.00	12.00	HS
	4860.00	45.30	89.94	4821.89	141.59	0.15	141.59	141.59	89.94	12.00	12.00	HS
	4880.00	47.70	89.94	4835.66	156.10	0.16	156.10	156.10	89.94	12.00	12.00	HS
	4900.00	50.10	89.94	4848.81	171.17	0.18	171.17	171.17	89.94	12.00	12.00	HS
	4920.00	52.50	89.94	4861.31	186.77	0.20	186.77	186.77	89.94	12.00	12.00	HS
	4940.00	54.90	89.94	4873.15	202.89	0.21	202.89	202.89	89.94	12.00	12.00	HS
	4960.00	57.30	89.94	4884.31	219.49	0.23	219.49	219.49	89.94	12.00	12.00	HS
	4980.00	59.70	89.94	4894.76	236.54	0.25	236.54	236.54	89.94	12.00	12.00	HS
	5000.00	62.10	89.94	4904.49	254.01	0.27	254.01	254.01	89.94	12.00	12.00	HS
	5020.00	64.50	89.94	4913.47	271.88	0.29	271.88	271.88	89.94	12.00	12.00	HS
	5040.00	66.90	89.94	4921.70	290.11	0.30	290.11	290.11	89.94	12.00	12.00	HS
	5060.00	69.30	89.94	4929.16	308.66	0.32	308.66	308.66	89.94	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	89.94	4935.84	327.51	0.34	327.51	327.51	89.94	12.00	12.00	HS
	5100.00	74.10	89.94	4941.72	346.63	0.36	346.62	346.63	89.94	12.00	12.00	HS
	5120.00	76.50	89.94	4946.80	365.97	0.38	365.97	365.97	89.94	12.00	12.00	HS
	5140.00	78.90	89.94	4951.06	385.51	0.40	385.51	385.51	89.94	12.00	12.00	HS
	5160.00	81.30	89.94	4954.50	405.21	0.43	405.21	405.21	89.94	12.00	12.00	HS
EOC	5180.00	83.70	89.94	4957.11	425.04	0.45	425.04	425.04	89.94	12.00	12.00	HS
	5200.00	86.10	89.94	4958.89	444.95	0.47	444.95	444.95	89.94	12.00	12.00	HS
	5220.00	88.50	89.94	4959.84	464.93	0.49	464.93	464.93	89.94	12.00	12.00	HS
	5232.54	90.00	89.94	4960.00	477.46	0.50	477.46	477.46	89.94	12.00	12.00	---
	5240.00	90.00	89.94	4960.00	484.93	0.51	484.93	484.93	89.94	0.00	0.00	---
	5260.00	90.00	89.94	4960.00	504.93	0.53	504.93	504.93	89.94	0.00	0.00	---
	5280.00	90.00	89.94	4960.00	524.93	0.55	524.93	524.93	89.94	0.00	0.00	---
	5300.00	90.00	89.94	4960.00	544.93	0.57	544.93	544.93	89.94	0.00	0.00	---
	5320.00	90.00	89.94	4960.00	564.93	0.59	564.93	564.93	89.94	0.00	0.00	---
	5340.00	90.00	89.94	4960.00	584.93	0.61	584.93	584.93	89.94	0.00	0.00	---
	5360.00	90.00	89.94	4960.00	604.93	0.63	604.93	604.93	89.94	0.00	0.00	---
	5380.00	90.00	89.94	4960.00	624.93	0.66	624.93	624.93	89.94	0.00	0.00	---
	5400.00	90.00	89.94	4960.00	644.93	0.68	644.93	644.93	89.94	0.00	0.00	---
	5420.00	90.00	89.94	4960.00	664.93	0.70	664.93	664.93	89.94	0.00	0.00	---
	5440.00	90.00	89.94	4960.00	684.93	0.72	684.93	684.93	89.94	0.00	0.00	---
	5460.00	90.00	89.94	4960.00	704.93	0.74	704.93	704.93	89.94	0.00	0.00	---
	5480.00	90.00	89.94	4960.00	724.93	0.76	724.93	724.93	89.94	0.00	0.00	---
	5500.00	90.00	89.94	4960.00	744.93	0.78	744.93	744.93	89.94	0.00	0.00	---
	5520.00	90.00	89.94	4960.00	764.93	0.80	764.93	764.93	89.94	0.00	0.00	---
	5540.00	90.00	89.94	4960.00	784.93	0.82	784.93	784.93	89.94	0.00	0.00	---
	5560.00	90.00	89.94	4960.00	804.93	0.84	804.93	804.93	89.94	0.00	0.00	---
	5580.00	90.00	89.94	4960.00	824.93	0.87	824.93	824.93	89.94	0.00	0.00	---
	5600.00	90.00	89.94	4960.00	844.93	0.89	844.93	844.93	89.94	0.00	0.00	---
	5620.00	90.00	89.94	4960.00	864.93	0.91	864.93	864.93	89.94	0.00	0.00	---
	5640.00	90.00	89.94	4960.00	884.93	0.93	884.93	884.93	89.94	0.00	0.00	---
	5660.00	90.00	89.94	4960.00	904.93	0.95	904.93	904.93	89.94	0.00	0.00	---
	5680.00	90.00	89.94	4960.00	924.93	0.97	924.93	924.93	89.94	0.00	0.00	---
	5700.00	90.00	89.94	4960.00	944.93	0.99	944.93	944.93	89.94	0.00	0.00	---
	5720.00	90.00	89.94	4960.00	964.93	1.01	964.93	964.93	89.94	0.00	0.00	---
	5740.00	90.00	89.94	4960.00	984.93	1.03	984.93	984.93	89.94	0.00	0.00	---
	5760.00	90.00	89.94	4960.00	1004.93	1.05	1004.93	1004.93	89.94	0.00	0.00	---
	5780.00	90.00	89.94	4960.00	1024.93	1.08	1024.93	1024.93	89.94	0.00	0.00	---
	5800.00	90.00	89.94	4960.00	1044.93	1.10	1044.93	1044.93	89.94	0.00	0.00	---
	5820.00	90.00	89.94	4960.00	1064.93	1.12	1064.93	1064.93	89.94	0.00	0.00	---
	5840.00	90.00	89.94	4960.00	1084.93	1.14	1084.93	1084.93	89.94	0.00	0.00	---
	5860.00	90.00	89.94	4960.00	1104.93	1.16	1104.93	1104.93	89.94	0.00	0.00	---
	5880.00	90.00	89.94	4960.00	1124.93	1.18	1124.93	1124.93	89.94	0.00	0.00	---
	5900.00	90.00	89.94	4960.00	1144.93	1.20	1144.93	1144.93	89.94	0.00	0.00	---
	5920.00	90.00	89.94	4960.00	1164.93	1.22	1164.93	1164.93	89.94	0.00	0.00	---
	5940.00	90.00	89.94	4960.00	1184.93	1.24	1184.93	1184.93	89.94	0.00	0.00	---
	5960.00	90.00	89.94	4960.00	1204.93	1.26	1204.93	1204.93	89.94	0.00	0.00	---
	5980.00	90.00	89.94	4960.00	1224.93	1.29	1224.93	1224.93	89.94	0.00	0.00	---
	6000.00	90.00	89.94	4960.00	1244.93	1.31	1244.93	1244.93	89.94	0.00	0.00	---
	6020.00	90.00	89.94	4960.00	1264.93	1.33	1264.93	1264.93	89.94	0.00	0.00	---
	6040.00	90.00	89.94	4960.00	1284.93	1.35	1284.93	1284.93	89.94	0.00	0.00	---
	6060.00	90.00	89.94	4960.00	1304.93	1.37	1304.93	1304.93	89.94	0.00	0.00	---
	6080.00	90.00	89.94	4960.00	1324.93	1.39	1324.93	1324.93	89.94	0.00	0.00	---
	6100.00	90.00	89.94	4960.00	1344.93	1.41	1344.93	1344.93	89.94	0.00	0.00	---
	6120.00	90.00	89.94	4960.00	1364.93	1.43	1364.93	1364.93	89.94	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	89.94	4960.00	1384.93	1.45	1384.93	1384.93	89.94	0.00	0.00	---
	6160.00	90.00	89.94	4960.00	1404.93	1.47	1404.93	1404.93	89.94	0.00	0.00	---
	6180.00	90.00	89.94	4960.00	1424.93	1.50	1424.93	1424.93	89.94	0.00	0.00	---
	6200.00	90.00	89.94	4960.00	1444.93	1.52	1444.93	1444.93	89.94	0.00	0.00	---
	6220.00	90.00	89.94	4960.00	1464.93	1.54	1464.93	1464.93	89.94	0.00	0.00	---
	6240.00	90.00	89.94	4960.00	1484.93	1.56	1484.93	1484.93	89.94	0.00	0.00	---
	6260.00	90.00	89.94	4960.00	1504.93	1.58	1504.93	1504.93	89.94	0.00	0.00	---
	6280.00	90.00	89.94	4960.00	1524.93	1.60	1524.93	1524.93	89.94	0.00	0.00	---
	6300.00	90.00	89.94	4960.00	1544.93	1.62	1544.93	1544.93	89.94	0.00	0.00	---
	6320.00	90.00	89.94	4960.00	1564.93	1.64	1564.93	1564.93	89.94	0.00	0.00	---
	6340.00	90.00	89.94	4960.00	1584.93	1.66	1584.93	1584.93	89.94	0.00	0.00	---
	6360.00	90.00	89.94	4960.00	1604.93	1.68	1604.93	1604.93	89.94	0.00	0.00	---
	6380.00	90.00	89.94	4960.00	1624.93	1.70	1624.93	1624.93	89.94	0.00	0.00	---
	6400.00	90.00	89.94	4960.00	1644.93	1.73	1644.93	1644.93	89.94	0.00	0.00	---
	6420.00	90.00	89.94	4960.00	1664.93	1.75	1664.93	1664.93	89.94	0.00	0.00	---
	6440.00	90.00	89.94	4960.00	1684.93	1.77	1684.93	1684.93	89.94	0.00	0.00	---
	6460.00	90.00	89.94	4960.00	1704.93	1.79	1704.93	1704.93	89.94	0.00	0.00	---
	6480.00	90.00	89.94	4960.00	1724.93	1.81	1724.93	1724.93	89.94	0.00	0.00	---
	6500.00	90.00	89.94	4960.00	1744.93	1.83	1744.93	1744.93	89.94	0.00	0.00	---
	6520.00	90.00	89.94	4960.00	1764.93	1.85	1764.93	1764.93	89.94	0.00	0.00	---
	6540.00	90.00	89.94	4960.00	1784.93	1.87	1784.93	1784.93	89.94	0.00	0.00	---
	6560.00	90.00	89.94	4960.00	1804.93	1.89	1804.93	1804.93	89.94	0.00	0.00	---
	6580.00	90.00	89.94	4960.00	1824.93	1.91	1824.93	1824.93	89.94	0.00	0.00	---
	6600.00	90.00	89.94	4960.00	1844.93	1.94	1844.93	1844.93	89.94	0.00	0.00	---
	6620.00	90.00	89.94	4960.00	1864.93	1.96	1864.93	1864.93	89.94	0.00	0.00	---
	6640.00	90.00	89.94	4960.00	1884.93	1.98	1884.93	1884.93	89.94	0.00	0.00	---
	6660.00	90.00	89.94	4960.00	1904.93	2.00	1904.93	1904.93	89.94	0.00	0.00	---
	6680.00	90.00	89.94	4960.00	1924.93	2.02	1924.93	1924.93	89.94	0.00	0.00	---
	6700.00	90.00	89.94	4960.00	1944.93	2.04	1944.93	1944.93	89.94	0.00	0.00	---
	6720.00	90.00	89.94	4960.00	1964.93	2.06	1964.93	1964.93	89.94	0.00	0.00	---
	6740.00	90.00	89.94	4960.00	1984.93	2.08	1984.93	1984.93	89.94	0.00	0.00	---
	6760.00	90.00	89.94	4960.00	2004.93	2.10	2004.93	2004.93	89.94	0.00	0.00	---
	6780.00	90.00	89.94	4960.00	2024.93	2.12	2024.93	2024.93	89.94	0.00	0.00	---
	6800.00	90.00	89.94	4960.00	2044.93	2.15	2044.93	2044.93	89.94	0.00	0.00	---
	6820.00	90.00	89.94	4960.00	2064.93	2.17	2064.93	2064.93	89.94	0.00	0.00	---
	6840.00	90.00	89.94	4960.00	2084.93	2.19	2084.93	2084.93	89.94	0.00	0.00	---
	6860.00	90.00	89.94	4960.00	2104.93	2.21	2104.93	2104.93	89.94	0.00	0.00	---
	6880.00	90.00	89.94	4960.00	2124.93	2.23	2124.93	2124.93	89.94	0.00	0.00	---
	6900.00	90.00	89.94	4960.00	2144.93	2.25	2144.93	2144.93	89.94	0.00	0.00	---
	6920.00	90.00	89.94	4960.00	2164.93	2.27	2164.93	2164.93	89.94	0.00	0.00	---
	6940.00	90.00	89.94	4960.00	2184.93	2.29	2184.93	2184.93	89.94	0.00	0.00	---
	6960.00	90.00	89.94	4960.00	2204.93	2.31	2204.93	2204.93	89.94	0.00	0.00	---
	6980.00	90.00	89.94	4960.00	2224.93	2.33	2224.93	2224.93	89.94	0.00	0.00	---
	7000.00	90.00	89.94	4960.00	2244.93	2.36	2244.93	2244.93	89.94	0.00	0.00	---
	7020.00	90.00	89.94	4960.00	2264.93	2.38	2264.93	2264.93	89.94	0.00	0.00	---
	7040.00	90.00	89.94	4960.00	2284.93	2.40	2284.93	2284.93	89.94	0.00	0.00	---
	7060.00	90.00	89.94	4960.00	2304.93	2.42	2304.93	2304.93	89.94	0.00	0.00	---
	7080.00	90.00	89.94	4960.00	2324.93	2.44	2324.93	2324.93	89.94	0.00	0.00	---
	7100.00	90.00	89.94	4960.00	2344.93	2.46	2344.93	2344.93	89.94	0.00	0.00	---
	7120.00	90.00	89.94	4960.00	2364.93	2.48	2364.93	2364.93	89.94	0.00	0.00	---
	7140.00	90.00	89.94	4960.00	2384.93	2.50	2384.93	2384.93	89.94	0.00	0.00	---
	7160.00	90.00	89.94	4960.00	2404.93	2.52	2404.93	2404.93	89.94	0.00	0.00	---
	7180.00	90.00	89.94	4960.00	2424.93	2.54	2424.93	2424.93	89.94	0.00	0.00	---
	7200.00	90.00	89.94	4960.00	2444.93	2.57	2444.93	2444.93	89.94	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	89.94	4960.00	2464.93	2.59	2464.93	2464.93	89.94	0.00	0.00	---
	7240.00	90.00	89.94	4960.00	2484.93	2.61	2484.93	2484.93	89.94	0.00	0.00	---
	7260.00	90.00	89.94	4960.00	2504.93	2.63	2504.93	2504.93	89.94	0.00	0.00	---
	7280.00	90.00	89.94	4960.00	2524.93	2.65	2524.93	2524.93	89.94	0.00	0.00	---
	7300.00	90.00	89.94	4960.00	2544.93	2.67	2544.93	2544.93	89.94	0.00	0.00	---
	7320.00	90.00	89.94	4960.00	2564.93	2.69	2564.93	2564.93	89.94	0.00	0.00	---
	7340.00	90.00	89.94	4960.00	2584.93	2.71	2584.93	2584.93	89.94	0.00	0.00	---
	7360.00	90.00	89.94	4960.00	2604.93	2.73	2604.93	2604.93	89.94	0.00	0.00	---
	7380.00	90.00	89.94	4960.00	2624.93	2.75	2624.93	2624.93	89.94	0.00	0.00	---
	7400.00	90.00	89.94	4960.00	2644.93	2.78	2644.93	2644.93	89.94	0.00	0.00	---
	7420.00	90.00	89.94	4960.00	2664.93	2.80	2664.93	2664.93	89.94	0.00	0.00	---
	7440.00	90.00	89.94	4960.00	2684.93	2.82	2684.93	2684.93	89.94	0.00	0.00	---
	7460.00	90.00	89.94	4960.00	2704.93	2.84	2704.93	2704.93	89.94	0.00	0.00	---
	7480.00	90.00	89.94	4960.00	2724.93	2.86	2724.93	2724.93	89.94	0.00	0.00	---
	7500.00	90.00	89.94	4960.00	2744.93	2.88	2744.93	2744.93	89.94	0.00	0.00	---
	7520.00	90.00	89.94	4960.00	2764.93	2.90	2764.93	2764.93	89.94	0.00	0.00	---
	7540.00	90.00	89.94	4960.00	2784.93	2.92	2784.93	2784.93	89.94	0.00	0.00	---
	7560.00	90.00	89.94	4960.00	2804.93	2.94	2804.93	2804.93	89.94	0.00	0.00	---
	7580.00	90.00	89.94	4960.00	2824.93	2.96	2824.93	2824.93	89.94	0.00	0.00	---
	7600.00	90.00	89.94	4960.00	2844.93	2.99	2844.93	2844.93	89.94	0.00	0.00	---
	7620.00	90.00	89.94	4960.00	2864.93	3.01	2864.93	2864.93	89.94	0.00	0.00	---
	7640.00	90.00	89.94	4960.00	2884.93	3.03	2884.93	2884.93	89.94	0.00	0.00	---
	7660.00	90.00	89.94	4960.00	2904.93	3.05	2904.93	2904.93	89.94	0.00	0.00	---
	7680.00	90.00	89.94	4960.00	2924.93	3.07	2924.93	2924.93	89.94	0.00	0.00	---
	7700.00	90.00	89.94	4960.00	2944.93	3.09	2944.93	2944.93	89.94	0.00	0.00	---
	7720.00	90.00	89.94	4960.00	2964.93	3.11	2964.93	2964.93	89.94	0.00	0.00	---
	7740.00	90.00	89.94	4960.00	2984.93	3.13	2984.93	2984.93	89.94	0.00	0.00	---
	7760.00	90.00	89.94	4960.00	3004.93	3.15	3004.93	3004.93	89.94	0.00	0.00	---
	7780.00	90.00	89.94	4960.00	3024.93	3.17	3024.93	3024.93	89.94	0.00	0.00	---
	7800.00	90.00	89.94	4960.00	3044.93	3.19	3044.93	3044.93	89.94	0.00	0.00	---
	7820.00	90.00	89.94	4960.00	3064.93	3.22	3064.93	3064.93	89.94	0.00	0.00	---
	7840.00	90.00	89.94	4960.00	3084.93	3.24	3084.93	3084.93	89.94	0.00	0.00	---
	7860.00	90.00	89.94	4960.00	3104.93	3.26	3104.93	3104.93	89.94	0.00	0.00	---
	7880.00	90.00	89.94	4960.00	3124.93	3.28	3124.93	3124.93	89.94	0.00	0.00	---
	7900.00	90.00	89.94	4960.00	3144.93	3.30	3144.93	3144.93	89.94	0.00	0.00	---
	7920.00	90.00	89.94	4960.00	3164.93	3.32	3164.93	3164.93	89.94	0.00	0.00	---
	7940.00	90.00	89.94	4960.00	3184.93	3.34	3184.93	3184.93	89.94	0.00	0.00	---
	7960.00	90.00	89.94	4960.00	3204.93	3.36	3204.93	3204.93	89.94	0.00	0.00	---
	7980.00	90.00	89.94	4960.00	3224.93	3.38	3224.93	3224.93	89.94	0.00	0.00	---
	8000.00	90.00	89.94	4960.00	3244.93	3.40	3244.93	3244.93	89.94	0.00	0.00	---
	8020.00	90.00	89.94	4960.00	3264.93	3.43	3264.93	3264.93	89.94	0.00	0.00	---
	8040.00	90.00	89.94	4960.00	3284.93	3.45	3284.93	3284.93	89.94	0.00	0.00	---
	8060.00	90.00	89.94	4960.00	3304.93	3.47	3304.93	3304.93	89.94	0.00	0.00	---
	8080.00	90.00	89.94	4960.00	3324.93	3.49	3324.93	3324.93	89.94	0.00	0.00	---
	8100.00	90.00	89.94	4960.00	3344.93	3.51	3344.93	3344.93	89.94	0.00	0.00	---
	8120.00	90.00	89.94	4960.00	3364.93	3.53	3364.93	3364.93	89.94	0.00	0.00	---
	8140.00	90.00	89.94	4960.00	3384.93	3.55	3384.93	3384.93	89.94	0.00	0.00	---
	8160.00	90.00	89.94	4960.00	3404.93	3.57	3404.93	3404.93	89.94	0.00	0.00	---
	8180.00	90.00	89.94	4960.00	3424.93	3.59	3424.93	3424.93	89.94	0.00	0.00	---
	8200.00	90.00	89.94	4960.00	3444.93	3.61	3444.93	3444.93	89.94	0.00	0.00	---
	8220.00	90.00	89.94	4960.00	3464.93	3.64	3464.93	3464.93	89.94	0.00	0.00	---
	8240.00	90.00	89.94	4960.00	3484.93	3.66	3484.93	3484.93	89.94	0.00	0.00	---
	8260.00	90.00	89.94	4960.00	3504.93	3.68	3504.93	3504.93	89.94	0.00	0.00	---
	8280.00	90.00	89.94	4960.00	3524.93	3.70	3524.93	3524.93	89.94	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)
	8300.00	90.00	89.94	4960.00	3544.93	3.72	3544.93	3544.93	89.94	0.00	0.00	---
	8320.00	90.00	89.94	4960.00	3564.93	3.74	3564.93	3564.93	89.94	0.00	0.00	---
	8340.00	90.00	89.94	4960.00	3584.93	3.76	3584.93	3584.93	89.94	0.00	0.00	---
	8360.00	90.00	89.94	4960.00	3604.93	3.78	3604.93	3604.93	89.94	0.00	0.00	---
	8380.00	90.00	89.94	4960.00	3624.93	3.80	3624.93	3624.93	89.94	0.00	0.00	---
	8400.00	90.00	89.94	4960.00	3644.93	3.82	3644.93	3644.93	89.94	0.00	0.00	---
	8420.00	90.00	89.94	4960.00	3664.93	3.85	3664.93	3664.93	89.94	0.00	0.00	---
	8440.00	90.00	89.94	4960.00	3684.93	3.87	3684.93	3684.93	89.94	0.00	0.00	---
	8460.00	90.00	89.94	4960.00	3704.93	3.89	3704.93	3704.93	89.94	0.00	0.00	---
	8480.00	90.00	89.94	4960.00	3724.93	3.91	3724.93	3724.93	89.94	0.00	0.00	---
	8500.00	90.00	89.94	4960.00	3744.93	3.93	3744.93	3744.93	89.94	0.00	0.00	---
	8520.00	90.00	89.94	4960.00	3764.93	3.95	3764.93	3764.93	89.94	0.00	0.00	---
	8540.00	90.00	89.94	4960.00	3784.93	3.97	3784.93	3784.93	89.94	0.00	0.00	---
	8560.00	90.00	89.94	4960.00	3804.93	3.99	3804.93	3804.93	89.94	0.00	0.00	---
	8580.00	90.00	89.94	4960.00	3824.93	4.01	3824.93	3824.93	89.94	0.00	0.00	---
	8600.00	90.00	89.94	4960.00	3844.93	4.03	3844.93	3844.93	89.94	0.00	0.00	---
	8620.00	90.00	89.94	4960.00	3864.93	4.06	3864.93	3864.93	89.94	0.00	0.00	---
	8640.00	90.00	89.94	4960.00	3884.93	4.08	3884.93	3884.93	89.94	0.00	0.00	---
	8660.00	90.00	89.94	4960.00	3904.93	4.10	3904.93	3904.93	89.94	0.00	0.00	---
	8680.00	90.00	89.94	4960.00	3924.93	4.12	3924.93	3924.93	89.94	0.00	0.00	---
	8700.00	90.00	89.94	4960.00	3944.93	4.14	3944.93	3944.93	89.94	0.00	0.00	---
	8720.00	90.00	89.94	4960.00	3964.93	4.16	3964.93	3964.93	89.94	0.00	0.00	---
PBHL	8735.32	90.00	89.94	4960.00	3980.25	4.18	3980.25	3980.25	89.94	0.00	0.00	---