

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		Month - Year MAR 9 2007 OCD - ARTESIA, NM	OGRID Number 218885
Property Code 35367	Property Name 1724 STATE COM.	API Number 015-35487	Well No. 272
Proposed Pool 1 COLLINS RANCH-WOLFCAMP (75010)		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
P	27	17S	24E		660'	SOUTH	760'	EAST	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
A	27	17S	24E		660'	NORTH	760'	EAST	EDDY CO.

Additional Well Information

Work Type Code N	Well Type Code G	Cable/Rotary ROTARY	Lease Type Code S	Ground Level Elevation 3736'
Multiple NO	Proposed Depth TVD-4960' MD-8697'	Formation WOLFCAMP	Contractor BIG DOG DRILLING	Spud Date WHEN APPROVED
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic ☒ 12 mils thick Clay ☐ Pit Volume: 18M bbls Drilling Method: Closed-Loop System ☐ Fresh Water ☒ Brine ☒ Diesel/Oil-based ☐ Gas/Air ☐				

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#	TVD-4960 MD-8697'	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

NOTIFY 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 ☐.

OIL CONSERVATION DIVISION
Approved by:

Printed name: Joe T. Janica

Title:

BRYAN G. ARANT

DISTRICT II GEOLOGIST

Title: Agent

Approval Date: MAR 27 2007

Expiration Date: MAR 27 2008

E-mail Address: joejanica@valornet.com

Date: 03/15/07

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

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 75010	Pool Name COLLINS RANCH-WOLFCAMP
Property Code	Property Name 1724 STATE COM	Well Number 272
OGRID No. 218885	Operator Name LCX ENERGY	Elevation 3736'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	27	17 S	24 E		660	SOUTH	760	EAST	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
A	27	17 S	24 E		660	NORTH	760	WEST	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

	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. 17767 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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LCX ENERGY, LLC
110 N. Marienfeld St., Suite 200
Midland, TX 79701

**Horizontal Drilling Procedure
Abo Wildcat Horizontals
(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.

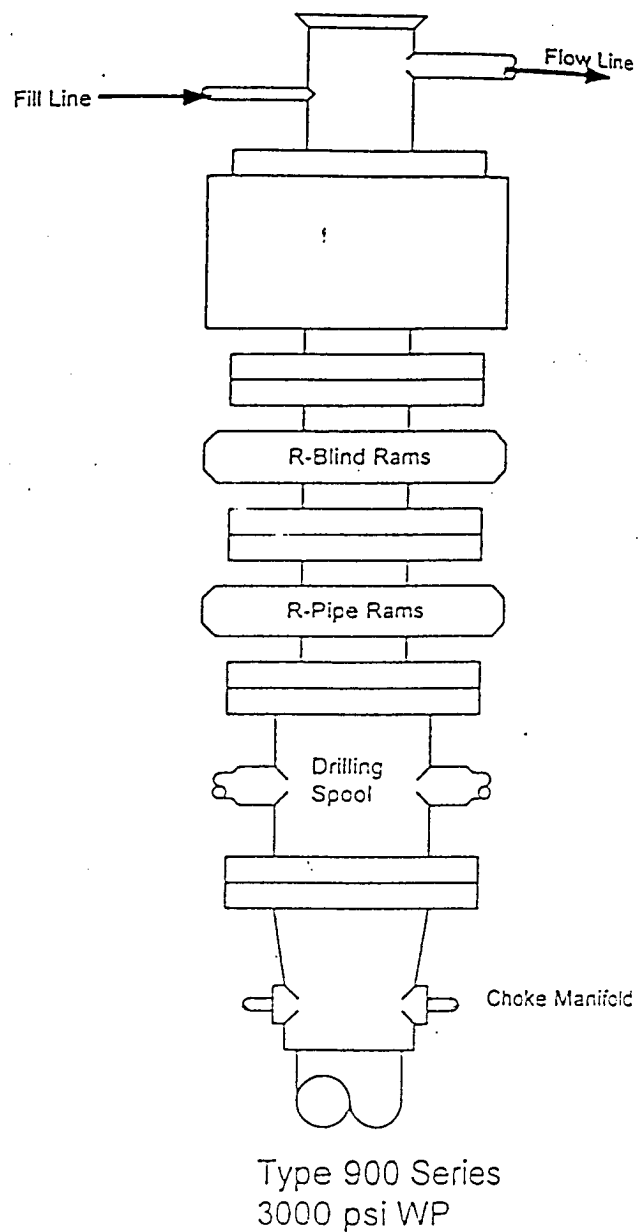
If hole conditions dictate running a 7" contingency string in the 8-3/4" hole :

- 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.

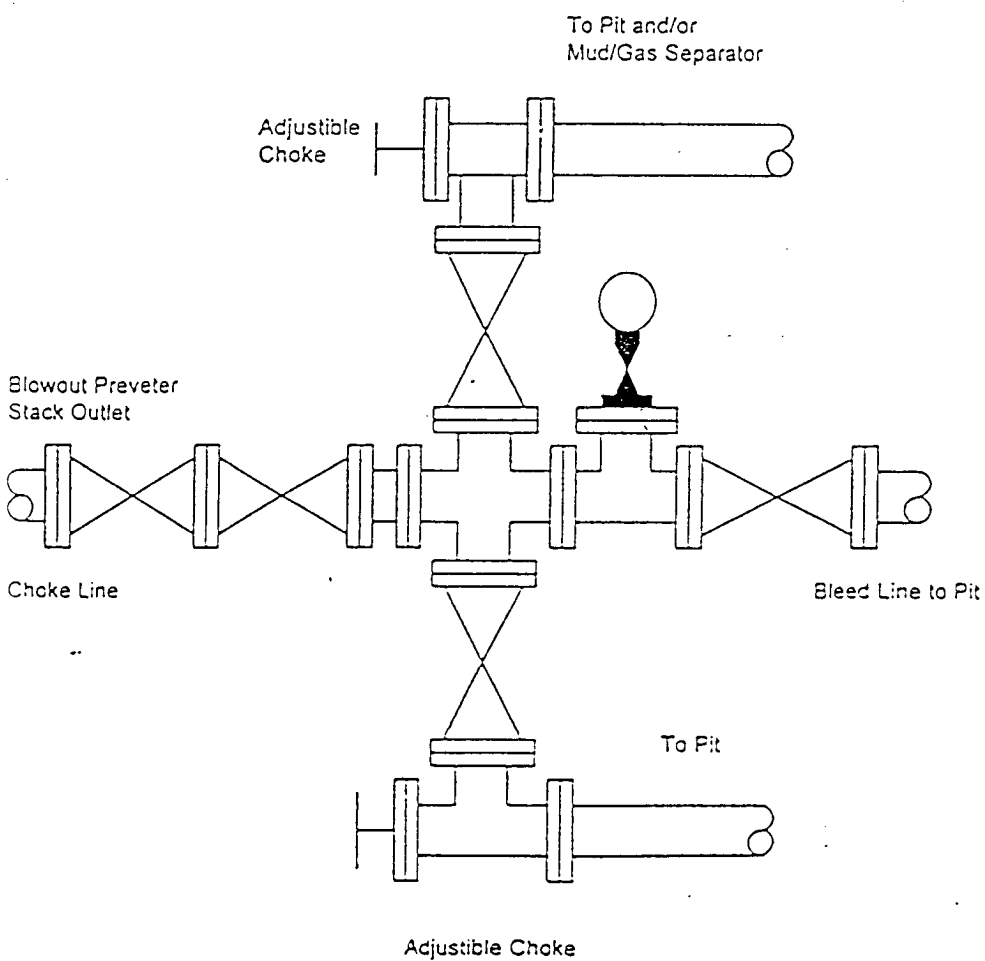
FRESH WATER WILL BE USED TO DRILL THE 350' HOLE AND THE 1200' HOLE.

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



Choke Manifold Assembly for 3M WP System



SECTION 27, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

150' NORTH
OFF SET
3735.8'
□

LCX ENERGY
1724 STATE COM #272
ELEV. - 3736'

150' WEST
OFF SET □
3736.2'

150' EAST
□ OFF SET
3734.6'

○
LAT-N 32°48'04.1"
LONG-W 104°34'13.6"
(NAD-83)

□
150' SOUTH
OFF SET
3735.2'

PROPOSED LEASE ROAD 680.6'

LEASE ROAD 0.1 MILES

LEASE ROAD 0.1 MILES

LEASE ROAD 0.8 MILES

DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF US HWY 285 AND US HWY 82,
PROCEED WEST ON US HWY 82 TO MILE MARKER 98,
FROM MILE MARKER 98, GO WEST 0.6 MILES TO LEASE
ROAD, ON LEASE ROAD GO SOUTH 1.9 MILES TO A "T",
GO WEST 0.2 MILES THENCE SOUTH 0.8 MILES THENCE
SOUTHWEST 0.2 MILES THENCE WEST 300' THENCE SOUTH
0.2 MILES TO A "T", GO EASTERLY 0.8 MILES TO A "T",
GO NORTH 0.1 MILES THENCE EAST 0.1 MILES TO
PROPOSED LEASE ROAD.

200 0 200 400 FEET

SCALE: 1" = 200'

LCX ENERGY

REF: 1724 STATE COM #272 / Well Pad Topo

THE 1724 STATE COM No. 272 LOCATED 660' FROM
THE SOUTH LINE AND 760' FROM THE EAST LINE OF
SECTION 27, TOWNSHIP 17 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 17767

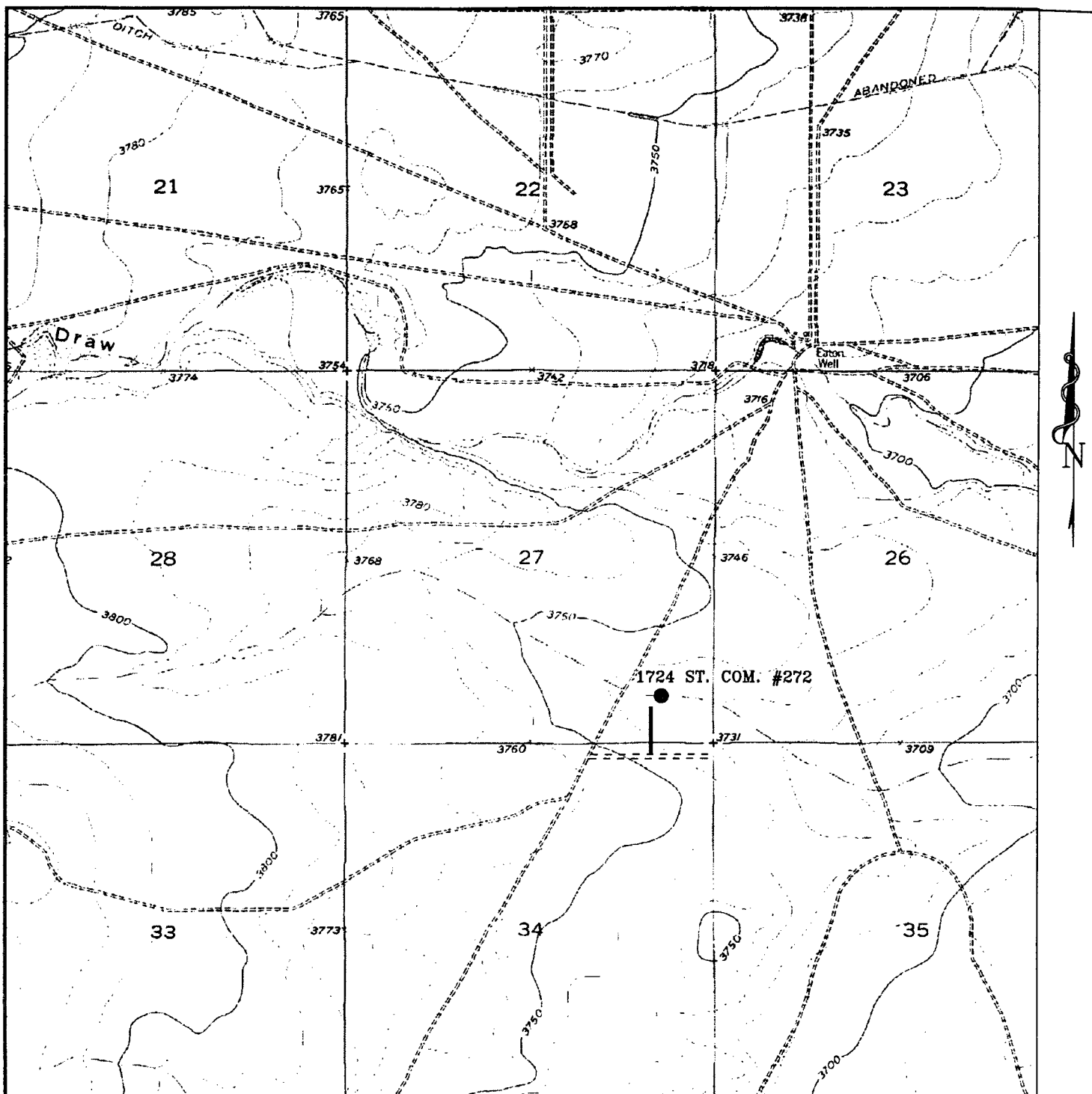
Drawn By: J. M. SMALL

Date: 02-19-2007

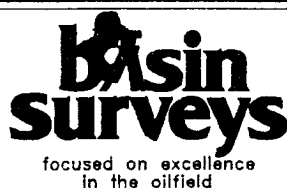
Disk: 17767W

Survey Date: 02-15-2007

Sheet 1 of 1 Sheets



THE 1724 STATE COM #272
 Located at 660' FSL and 760 FWL
 Section 27, Township 17 South, Range 24 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

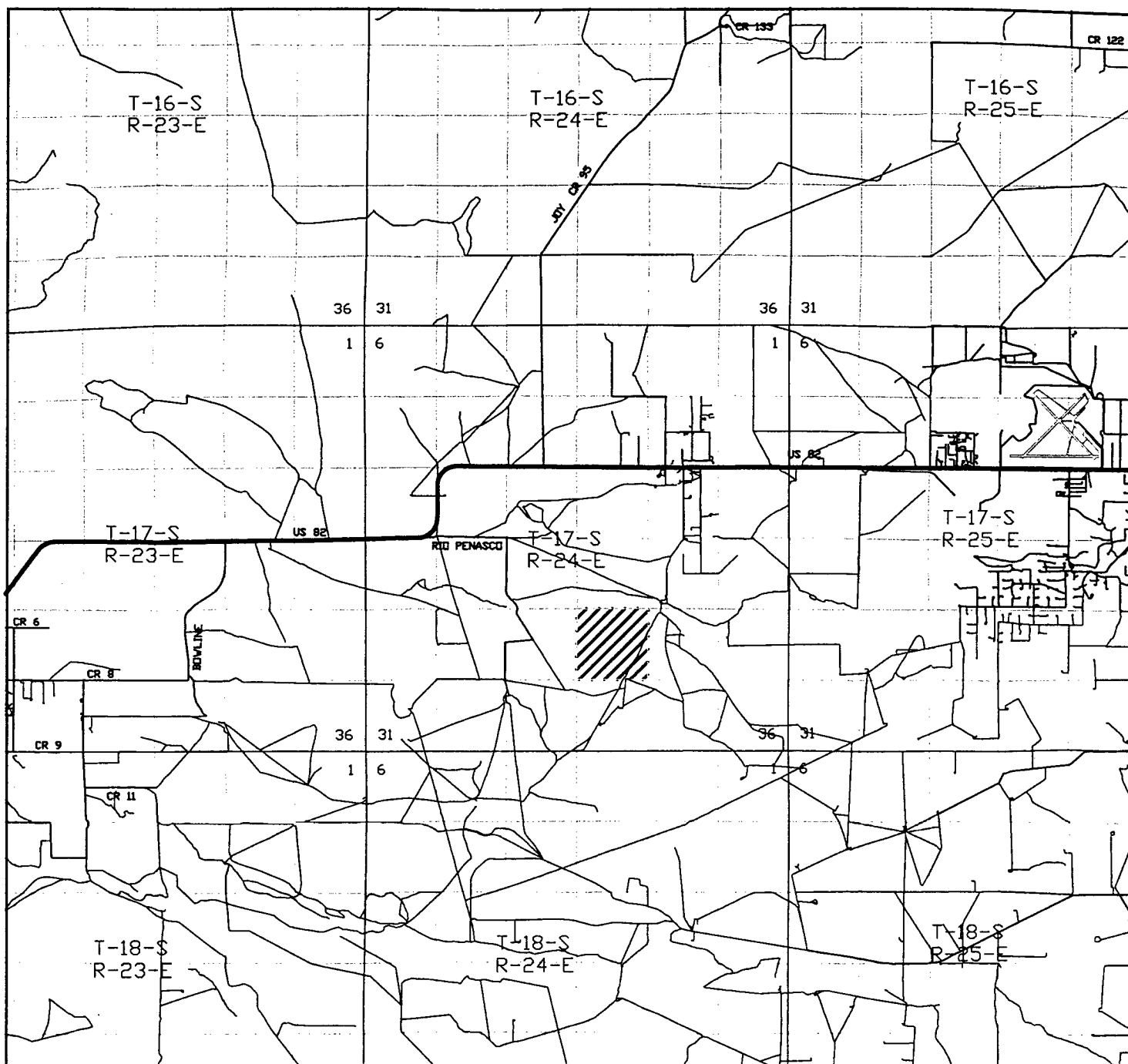
W.O. Number: JMS 17767T

Survey Date: 02-15-2007

Scale: 1" = 2000'

Date: 02-19-2007

LCX ENERGY



THE LCX - 1724 STATE COM #272
 Located at 660' FSL and 760 FEL
 Section 27, Township 17 South, Range 24 East,
 N.M.P.M., Eddy County, New Mexico.

basin
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 in the oilfield

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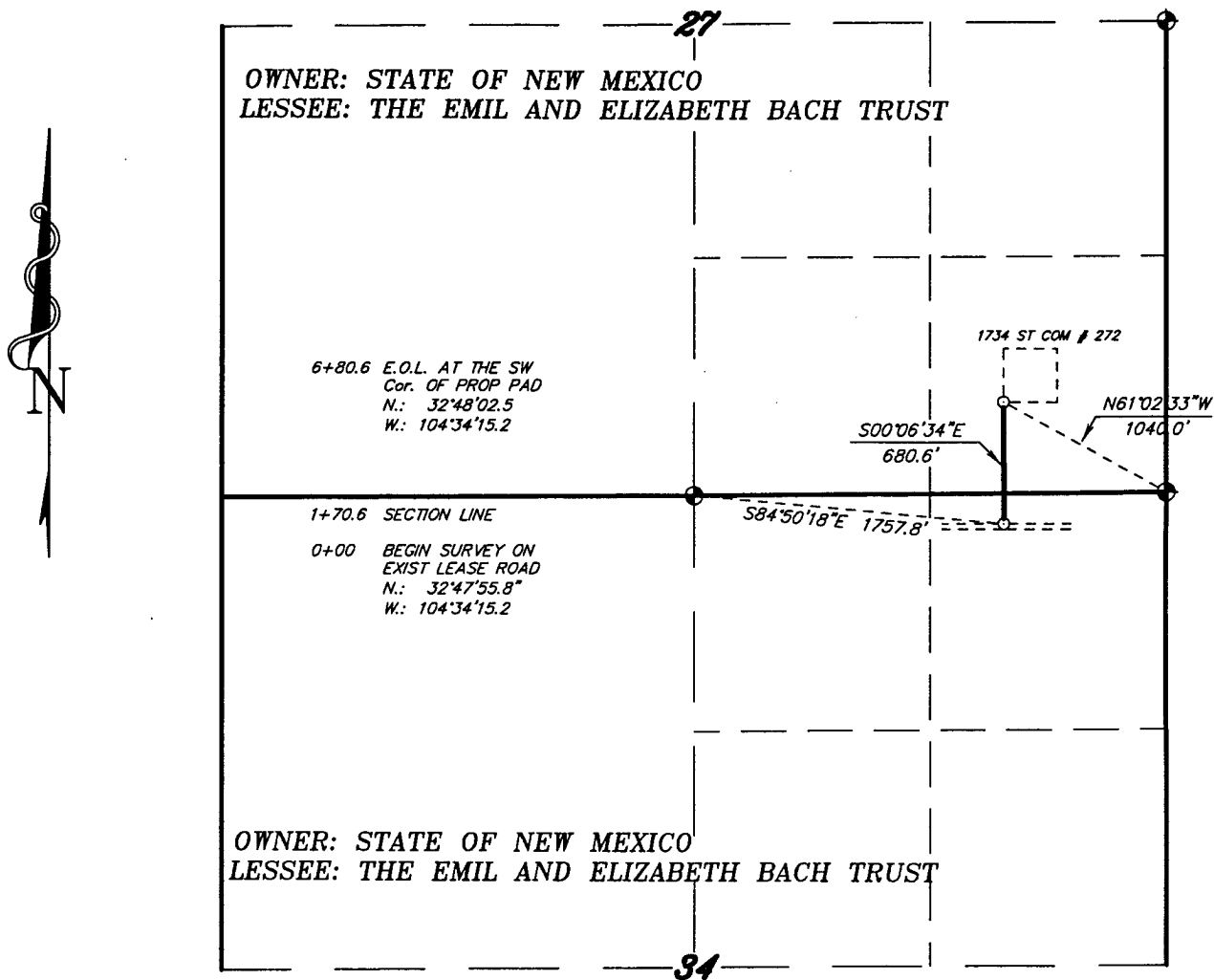
Survey Date: 02-15-2007

Scale: 1" = 2 MILES

Date: 02-19-2007

LCX
 ENERGY

SECTIONS 27&34, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



LEGAL DESCRIPTION

A STRIP OF LAND 20.0 FEET WIDE, LOCATED IN SECTIONS 27&34, TOWNSHIP 17 SOUTH, RANGE 24 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 S.84°50'18\"E., 1757.8 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 34; THENCE N.00°06'34\"W., 680.6 FEET TO THE END OF THIS LINE WHICH LIES N.61°02'33\"W., 1040.0 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 27. SAID STRIP OF LAND BEING 680.6 FEET OR 41.25 RODS IN LENGTH, AND CONTAINING 0.31 ACRES, MORE OR LESS, AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 (SEC. 34) = 10.34 RODS = 0.08 ACRES SE/4 SE/4 (SEC. 27) = 30.91 RODS = 0.23 ACRES

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

GARY L. JAMES, N.M.P.S. No. 7977
JAMES P.L.S. No. 5074

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

W.O. Number: 17767 Drawn By: J. M. SMALL

Date: 02-19-2007 Disk: JMS 17767R

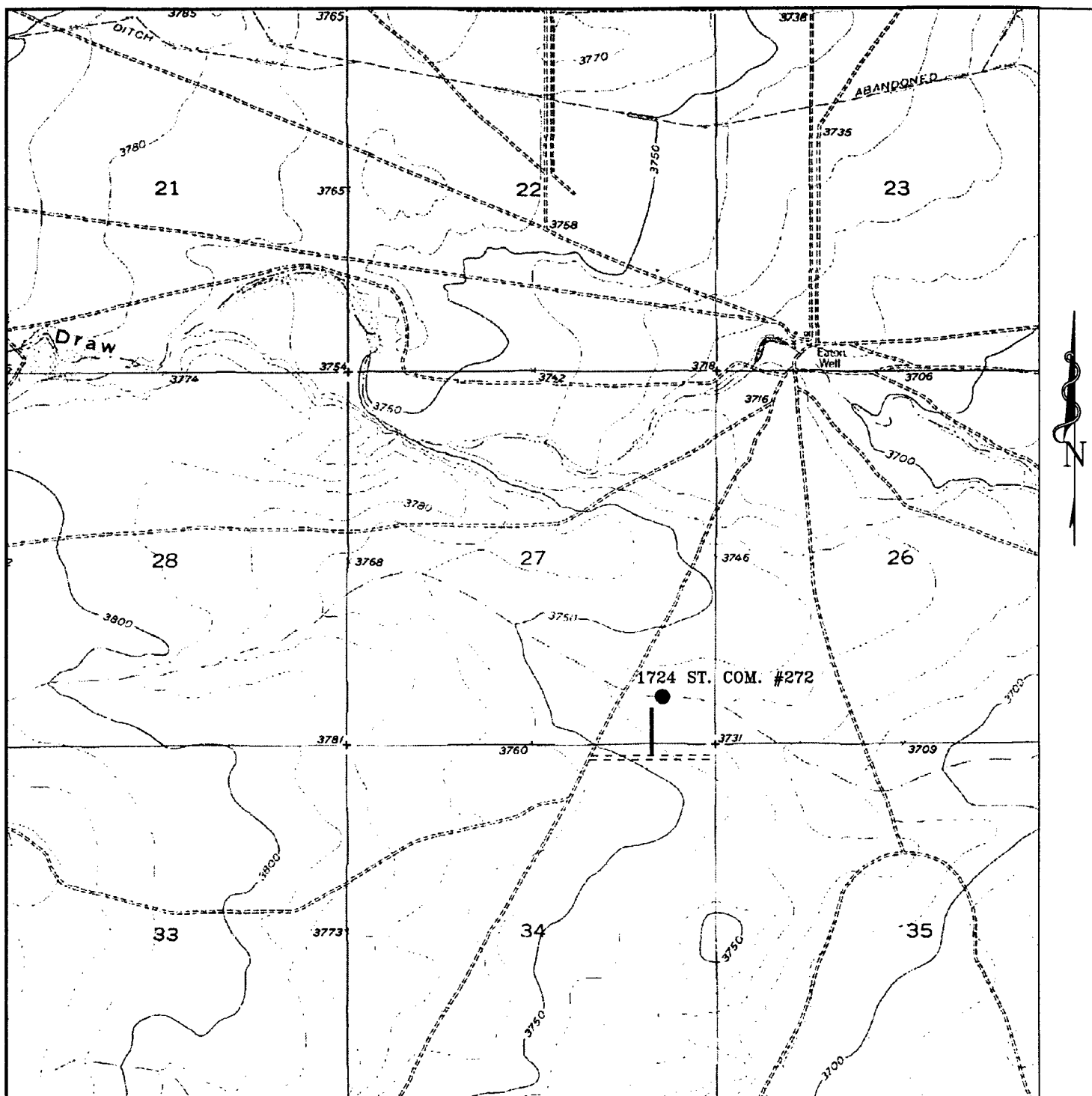
1000 0 1000 2000 FEET

LCX ENERGY

REF: PROPOSED ROAD TO THE LCX - 1724 STATE COM #272

A ROAD CROSSING STATE LAND IN
SECTIONS 27&34, TOWNSHIP 17 SOUTH, RANGE 24 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 02-15-2007 Sheet 1 of 1 Sheets



PROPOSED LEASE ROAD TO THE 1724 STATE COM #272
 Section 27, Township 17 South, Range 24 East,
 N.M.P.M., Eddy County, New Mexico.

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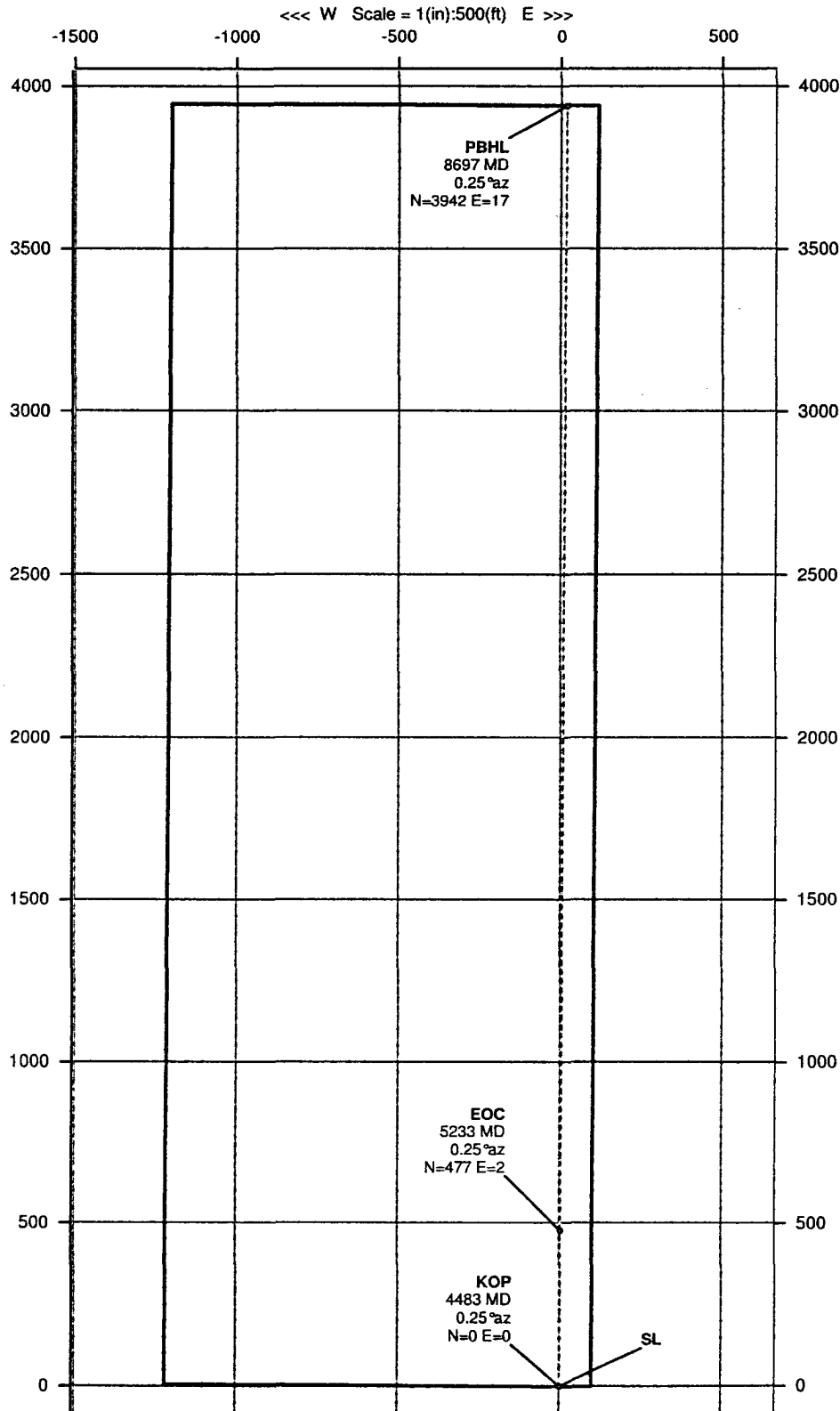
Scale: 1" = 2000'

Date: 02-19-2007

LCX ENERGY

LCX Energy

WELL	1724 State Com #272	FIELD	Eddy County, NM Nad 83	STRUCTURE	1724 State Com #272
Magnetic Parameters Model: KIRF 2005		Surface Location Lat: N29 48 4.100 Long: W104 34 13.600		Miscellaneous Site: 1724 State Com #272 Plan: 1724 State Com #272.1	
Dir: 68.654° Mag Dec: -8.587°		Date: February 22, 2007 PS: 49324.5 NT		TVD Ref: RKS (8.00 ft above) Srvy Date: February 22, 2007	
		Working: 652364.45 RUS Easting: 464162.07 NUS		Scale East: 0.0000151093	



Proposal



Report Date: February 22, 2007 Client: LCX Energy Field: Eddy County, NM Nad 83 Structure / Slot: 1724 State Com #272 / 1724 State Com #272 Well: 1724 State Com #272 Borehole: 1724 State Com #272 UWWAPI#: Survey Name / Date: 1724 State Com #272_r1 / February 22, 2007 Tort / AHD / DDI / ERD ratio: 90.000° / 3941.70 ft / 5.794 / 0.795 Grid Coordinate System: NAD83 New Mexico State Planes, Eastern Zone, US Feet Location Lat/Long: N 32 48 4.100, W 104 34 13.600 Location Grid N/E Y/X: N 655268.450 RUS, E 468482.073 RUS Grid Convergence Angle: -0.12844952° Grid Scale Factor: 0.99991517	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 0.250° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 0.0 ft relative to Sea Bed / Ground Level Elevation: 0.000 ft relative to Magnetic Declination: 8.587° Total Field Strength: 49324.530 nT Magnetic Dip: 60.654° Declination Date: February 22, 2007 Magnetic Declination Model: IGRF 2005 North Reference: Grid North Total Corr Mag North -> Grid North: +8.715° 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	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	20.00	0.00	0.25	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	40.00	0.00	0.25	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	60.00	0.00	0.25	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	80.00	0.00	0.25	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	100.00	0.00	0.25	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	120.00	0.00	0.25	120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	140.00	0.00	0.25	140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	160.00	0.00	0.25	160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	180.00	0.00	0.25	180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	200.00	0.00	0.25	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	220.00	0.00	0.25	220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	240.00	0.00	0.25	240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	260.00	0.00	0.25	260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	280.00	0.00	0.25	280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	300.00	0.00	0.25	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	320.00	0.00	0.25	320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	340.00	0.00	0.25	340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	360.00	0.00	0.25	360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	380.00	0.00	0.25	380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	400.00	0.00	0.25	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	420.00	0.00	0.25	420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	440.00	0.00	0.25	440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	460.00	0.00	0.25	460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	480.00	0.00	0.25	480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	500.00	0.00	0.25	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	520.00	0.00	0.25	520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	540.00	0.00	0.25	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	560.00	0.00	0.25	560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	580.00	0.00	0.25	580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	600.00	0.00	0.25	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	620.00	0.00	0.25	620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	640.00	0.00	0.25	640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	660.00	0.00	0.25	660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	680.00	0.00	0.25	680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	700.00	0.00	0.25	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	720.00	0.00	0.25	720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	740.00	0.00	0.25	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	0.25	760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	780.00	0.00	0.25	780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	800.00	0.00	0.25	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	820.00	0.00	0.25	820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	840.00	0.00	0.25	840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	860.00	0.00	0.25	860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	880.00	0.00	0.25	880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	900.00	0.00	0.25	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	920.00	0.00	0.25	920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	940.00	0.00	0.25	940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	960.00	0.00	0.25	960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	980.00	0.00	0.25	980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1000.00	0.00	0.25	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1020.00	0.00	0.25	1020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1040.00	0.00	0.25	1040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1060.00	0.00	0.25	1060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1080.00	0.00	0.25	1080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1100.00	0.00	0.25	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1120.00	0.00	0.25	1120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1140.00	0.00	0.25	1140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1160.00	0.00	0.25	1160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1180.00	0.00	0.25	1180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1200.00	0.00	0.25	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1220.00	0.00	0.25	1220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1240.00	0.00	0.25	1240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1260.00	0.00	0.25	1260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1280.00	0.00	0.25	1280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1300.00	0.00	0.25	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1320.00	0.00	0.25	1320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1340.00	0.00	0.25	1340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1360.00	0.00	0.25	1360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1380.00	0.00	0.25	1380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1400.00	0.00	0.25	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1420.00	0.00	0.25	1420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1440.00	0.00	0.25	1440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1460.00	0.00	0.25	1460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1480.00	0.00	0.25	1480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1500.00	0.00	0.25	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1520.00	0.00	0.25	1520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1540.00	0.00	0.25	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1560.00	0.00	0.25	1560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1580.00	0.00	0.25	1580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1600.00	0.00	0.25	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1620.00	0.00	0.25	1620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1640.00	0.00	0.25	1640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1660.00	0.00	0.25	1660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1680.00	0.00	0.25	1680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1700.00	0.00	0.25	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1720.00	0.00	0.25	1720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1740.00	0.00	0.25	1740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1760.00	0.00	0.25	1760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1780.00	0.00	0.25	1780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1800.00	0.00	0.25	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1820.00	0.00	0.25	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	0.25	1840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1860.00	0.00	0.25	1860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1880.00	0.00	0.25	1880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1900.00	0.00	0.25	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1920.00	0.00	0.25	1920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1940.00	0.00	0.25	1940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1960.00	0.00	0.25	1960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	1980.00	0.00	0.25	1980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2000.00	0.00	0.25	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2020.00	0.00	0.25	2020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2040.00	0.00	0.25	2040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2060.00	0.00	0.25	2060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2080.00	0.00	0.25	2080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2100.00	0.00	0.25	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2120.00	0.00	0.25	2120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2140.00	0.00	0.25	2140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2160.00	0.00	0.25	2160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2180.00	0.00	0.25	2180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2200.00	0.00	0.25	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2220.00	0.00	0.25	2220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2240.00	0.00	0.25	2240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2260.00	0.00	0.25	2260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2280.00	0.00	0.25	2280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2300.00	0.00	0.25	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2320.00	0.00	0.25	2320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2340.00	0.00	0.25	2340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2360.00	0.00	0.25	2360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2380.00	0.00	0.25	2380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2400.00	0.00	0.25	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2420.00	0.00	0.25	2420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2440.00	0.00	0.25	2440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2460.00	0.00	0.25	2460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2480.00	0.00	0.25	2480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2500.00	0.00	0.25	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2520.00	0.00	0.25	2520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2540.00	0.00	0.25	2540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2560.00	0.00	0.25	2560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2580.00	0.00	0.25	2580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2600.00	0.00	0.25	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2620.00	0.00	0.25	2620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2640.00	0.00	0.25	2640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2660.00	0.00	0.25	2660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2680.00	0.00	0.25	2680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2700.00	0.00	0.25	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2720.00	0.00	0.25	2720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2740.00	0.00	0.25	2740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2760.00	0.00	0.25	2760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2780.00	0.00	0.25	2780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2800.00	0.00	0.25	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2820.00	0.00	0.25	2820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2840.00	0.00	0.25	2840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2860.00	0.00	0.25	2860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2880.00	0.00	0.25	2880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2900.00	0.00	0.25	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	0.25	2920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2940.00	0.00	0.25	2940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2960.00	0.00	0.25	2960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	2980.00	0.00	0.25	2980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3000.00	0.00	0.25	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3020.00	0.00	0.25	3020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3040.00	0.00	0.25	3040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3060.00	0.00	0.25	3060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3080.00	0.00	0.25	3080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3100.00	0.00	0.25	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3120.00	0.00	0.25	3120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3140.00	0.00	0.25	3140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3160.00	0.00	0.25	3160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3180.00	0.00	0.25	3180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3200.00	0.00	0.25	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3220.00	0.00	0.25	3220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3240.00	0.00	0.25	3240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3260.00	0.00	0.25	3260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3280.00	0.00	0.25	3280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3300.00	0.00	0.25	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3320.00	0.00	0.25	3320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3340.00	0.00	0.25	3340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3360.00	0.00	0.25	3360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3380.00	0.00	0.25	3380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3400.00	0.00	0.25	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3420.00	0.00	0.25	3420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3440.00	0.00	0.25	3440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3460.00	0.00	0.25	3460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3480.00	0.00	0.25	3480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3500.00	0.00	0.25	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3520.00	0.00	0.25	3520.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3540.00	0.00	0.25	3540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3560.00	0.00	0.25	3560.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3580.00	0.00	0.25	3580.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3600.00	0.00	0.25	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3620.00	0.00	0.25	3620.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3640.00	0.00	0.25	3640.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3660.00	0.00	0.25	3660.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3680.00	0.00	0.25	3680.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3700.00	0.00	0.25	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3720.00	0.00	0.25	3720.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3740.00	0.00	0.25	3740.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3760.00	0.00	0.25	3760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3780.00	0.00	0.25	3780.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3800.00	0.00	0.25	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3820.00	0.00	0.25	3820.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3840.00	0.00	0.25	3840.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3860.00	0.00	0.25	3860.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3880.00	0.00	0.25	3880.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3900.00	0.00	0.25	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3920.00	0.00	0.25	3920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3940.00	0.00	0.25	3940.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3960.00	0.00	0.25	3960.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	3980.00	0.00	0.25	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	0.25	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4020.00	0.00	0.25	4020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4040.00	0.00	0.25	4040.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4060.00	0.00	0.25	4060.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4080.00	0.00	0.25	4080.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4100.00	0.00	0.25	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4120.00	0.00	0.25	4120.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4140.00	0.00	0.25	4140.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4160.00	0.00	0.25	4160.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4180.00	0.00	0.25	4180.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4200.00	0.00	0.25	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4220.00	0.00	0.25	4220.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4240.00	0.00	0.25	4240.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4260.00	0.00	0.25	4260.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4280.00	0.00	0.25	4280.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4300.00	0.00	0.25	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4320.00	0.00	0.25	4320.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4340.00	0.00	0.25	4340.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4360.00	0.00	0.25	4360.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4380.00	0.00	0.25	4380.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4400.00	0.00	0.25	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4420.00	0.00	0.25	4420.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4440.00	0.00	0.25	4440.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4460.00	0.00	0.25	4460.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
	4480.00	0.00	0.25	4480.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
KOP	4482.54	0.00	0.25	4482.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25M
	4500.00	2.10	0.25	4500.00	0.32	0.32	0.00	0.32	0.25	12.00	12.00	0.25M
	4520.00	4.50	0.25	4519.96	1.47	1.47	0.01	1.47	0.25	12.00	12.00	0.25M
	4540.00	6.90	0.25	4539.86	3.45	3.45	0.02	3.45	0.25	12.00	12.00	HS
	4560.00	9.30	0.25	4559.66	6.27	6.27	0.03	6.27	0.25	12.00	12.00	HS
	4580.00	11.70	0.25	4579.32	9.91	9.91	0.04	9.91	0.25	12.00	12.00	HS
	4600.00	14.10	0.25	4598.82	14.38	14.38	0.06	14.38	0.25	12.00	12.00	HS
	4620.00	16.50	0.25	4618.11	19.65	19.65	0.09	19.65	0.25	12.00	12.00	HS
	4640.00	18.90	0.25	4637.16	25.73	25.73	0.11	25.73	0.25	12.00	12.00	HS
	4660.00	21.30	0.25	4655.94	32.60	32.60	0.14	32.60	0.25	12.00	12.00	HS
	4680.00	23.70	0.25	4674.42	40.25	40.25	0.18	40.25	0.25	12.00	12.00	HS
	4700.00	26.10	0.25	4692.56	48.67	48.67	0.21	48.67	0.25	12.00	12.00	HS
	4720.00	28.50	0.25	4710.33	57.84	57.84	0.25	57.84	0.25	12.00	12.00	HS
	4740.00	30.90	0.25	4727.70	67.75	67.75	0.30	67.75	0.25	12.00	12.00	HS
	4760.00	33.30	0.25	4744.64	78.38	78.38	0.35	78.38	0.25	12.00	12.00	HS
	4780.00	35.70	0.25	4761.13	89.70	89.70	0.40	89.70	0.25	12.00	12.00	HS
	4800.00	38.10	0.25	4777.12	101.71	101.71	0.45	101.71	0.25	12.00	12.00	HS
	4820.00	40.50	0.25	4792.60	114.37	114.37	0.50	114.37	0.25	12.00	12.00	HS
	4840.00	42.90	0.25	4807.53	127.68	127.68	0.56	127.68	0.25	12.00	12.00	HS
	4860.00	45.30	0.25	4821.89	141.59	141.59	0.62	141.59	0.25	12.00	12.00	HS
	4880.00	47.70	0.25	4835.66	156.10	156.10	0.69	156.10	0.25	12.00	12.00	HS
	4900.00	50.10	0.25	4848.81	171.17	171.17	0.75	171.17	0.25	12.00	12.00	HS
	4920.00	52.50	0.25	4861.31	186.77	186.77	0.82	186.77	0.25	12.00	12.00	HS
	4940.00	54.90	0.25	4873.15	202.89	202.89	0.89	202.89	0.25	12.00	12.00	HS
	4960.00	57.30	0.25	4884.31	219.49	219.49	0.97	219.49	0.25	12.00	12.00	HS
	4980.00	59.70	0.25	4894.76	236.54	236.54	1.04	236.54	0.25	12.00	12.00	HS
	5000.00	62.10	0.25	4904.49	254.01	254.01	1.12	254.01	0.25	12.00	12.00	HS
	5020.00	64.50	0.25	4913.47	271.88	271.88	1.20	271.88	0.25	12.00	12.00	HS
	5040.00	66.90	0.25	4921.70	290.11	290.11	1.28	290.11	0.25	12.00	12.00	HS
	5060.00	69.30	0.25	4929.16	308.66	308.66	1.36	308.66	0.25	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	0.25	4935.84	327.51	327.51	1.44	327.51	0.25	12.00	12.00	HS
	5100.00	74.10	0.25	4941.72	346.63	346.62	1.53	346.63	0.25	12.00	12.00	HS
	5120.00	76.50	0.25	4946.80	365.97	365.97	1.61	365.97	0.25	12.00	12.00	HS
	5140.00	78.90	0.25	4951.06	385.51	385.50	1.70	385.51	0.25	12.00	12.00	HS
	5160.00	81.30	0.25	4954.50	405.21	405.20	1.79	405.21	0.25	12.00	12.00	HS
EOC	5180.00	83.70	0.25	4957.11	425.04	425.03	1.87	425.04	0.25	12.00	12.00	HS
	5200.00	86.10	0.25	4958.89	444.95	444.95	1.96	444.95	0.25	12.00	12.00	HS
	5220.00	88.50	0.25	4959.84	464.93	464.93	2.05	464.93	0.25	12.00	12.00	HS
	5232.54	90.00	0.25	4960.00	477.46	477.46	2.10	477.46	0.25	12.00	12.00	---
	5240.00	90.00	0.25	4960.00	484.93	484.92	2.14	484.93	0.25	0.00	0.00	---
	5260.00	90.00	0.25	4960.00	504.93	504.92	2.23	504.93	0.25	0.00	0.00	---
	5280.00	90.00	0.25	4960.00	524.93	524.92	2.31	524.93	0.25	0.00	0.00	---
	5300.00	90.00	0.25	4960.00	544.93	544.92	2.40	544.93	0.25	0.00	0.00	---
	5320.00	90.00	0.25	4960.00	564.93	564.92	2.49	564.93	0.25	0.00	0.00	---
	5340.00	90.00	0.25	4960.00	584.93	584.92	2.58	584.93	0.25	0.00	0.00	---
	5360.00	90.00	0.25	4960.00	604.93	604.92	2.67	604.93	0.25	0.00	0.00	---
	5380.00	90.00	0.25	4960.00	624.93	624.92	2.75	624.93	0.25	0.00	0.00	---
	5400.00	90.00	0.25	4960.00	644.93	644.92	2.84	644.93	0.25	0.00	0.00	---
	5420.00	90.00	0.25	4960.00	664.93	664.92	2.93	664.93	0.25	0.00	0.00	---
	5440.00	90.00	0.25	4960.00	684.93	684.92	3.02	684.93	0.25	0.00	0.00	---
	5460.00	90.00	0.25	4960.00	704.93	704.92	3.11	704.93	0.25	0.00	0.00	---
	5480.00	90.00	0.25	4960.00	724.93	724.92	3.20	724.93	0.25	0.00	0.00	---
	5500.00	90.00	0.25	4960.00	744.93	744.92	3.28	744.93	0.25	0.00	0.00	---
	5520.00	90.00	0.25	4960.00	764.93	764.92	3.37	764.93	0.25	0.00	0.00	---
	5540.00	90.00	0.25	4960.00	784.93	784.92	3.46	784.93	0.25	0.00	0.00	---
	5560.00	90.00	0.25	4960.00	804.93	804.92	3.55	804.93	0.25	0.00	0.00	---
	5580.00	90.00	0.25	4960.00	824.93	824.92	3.64	824.93	0.25	0.00	0.00	---
	5600.00	90.00	0.25	4960.00	844.93	844.92	3.72	844.93	0.25	0.00	0.00	---
	5620.00	90.00	0.25	4960.00	864.93	864.92	3.81	864.93	0.25	0.00	0.00	---
	5640.00	90.00	0.25	4960.00	884.93	884.92	3.90	884.93	0.25	0.00	0.00	---
	5660.00	90.00	0.25	4960.00	904.93	904.92	3.99	904.93	0.25	0.00	0.00	---
	5680.00	90.00	0.25	4960.00	924.93	924.92	4.08	924.93	0.25	0.00	0.00	---
	5700.00	90.00	0.25	4960.00	944.93	944.92	4.16	944.93	0.25	0.00	0.00	---
	5720.00	90.00	0.25	4960.00	964.93	964.92	4.25	964.93	0.25	0.00	0.00	---
	5740.00	90.00	0.25	4960.00	984.93	984.92	4.34	984.93	0.25	0.00	0.00	---
	5760.00	90.00	0.25	4960.00	1004.93	1004.92	4.43	1004.93	0.25	0.00	0.00	---
	5780.00	90.00	0.25	4960.00	1024.93	1024.92	4.52	1024.93	0.25	0.00	0.00	---
	5800.00	90.00	0.25	4960.00	1044.93	1044.92	4.61	1044.93	0.25	0.00	0.00	---
	5820.00	90.00	0.25	4960.00	1064.93	1064.92	4.69	1064.93	0.25	0.00	0.00	---
	5840.00	90.00	0.25	4960.00	1084.93	1084.92	4.78	1084.93	0.25	0.00	0.00	---
	5860.00	90.00	0.25	4960.00	1104.93	1104.92	4.87	1104.93	0.25	0.00	0.00	---
	5880.00	90.00	0.25	4960.00	1124.93	1124.92	4.96	1124.93	0.25	0.00	0.00	---
	5900.00	90.00	0.25	4960.00	1144.93	1144.92	5.05	1144.93	0.25	0.00	0.00	---
	5920.00	90.00	0.25	4960.00	1164.93	1164.92	5.13	1164.93	0.25	0.00	0.00	---
	5940.00	90.00	0.25	4960.00	1184.93	1184.92	5.22	1184.93	0.25	0.00	0.00	---
	5960.00	90.00	0.25	4960.00	1204.93	1204.92	5.31	1204.93	0.25	0.00	0.00	---
	5980.00	90.00	0.25	4960.00	1224.93	1224.92	5.40	1224.93	0.25	0.00	0.00	---
	6000.00	90.00	0.25	4960.00	1244.93	1244.92	5.49	1244.93	0.25	0.00	0.00	---
	6020.00	90.00	0.25	4960.00	1264.93	1264.92	5.58	1264.93	0.25	0.00	0.00	---
	6040.00	90.00	0.25	4960.00	1284.93	1284.92	5.66	1284.93	0.25	0.00	0.00	---
	6060.00	90.00	0.25	4960.00	1304.93	1304.92	5.75	1304.93	0.25	0.00	0.00	---
	6080.00	90.00	0.25	4960.00	1324.93	1324.92	5.84	1324.93	0.25	0.00	0.00	---
	6100.00	90.00	0.25	4960.00	1344.93	1344.92	5.93	1344.93	0.25	0.00	0.00	---
	6120.00	90.00	0.25	4960.00	1364.93	1364.92	6.02	1364.93	0.25	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	0.25	4960.00	1384.93	1384.92	6.10	1384.93	0.25	0.00	0.00	---
	6160.00	90.00	0.25	4960.00	1404.93	1404.92	6.19	1404.93	0.25	0.00	0.00	---
	6180.00	90.00	0.25	4960.00	1424.93	1424.92	6.28	1424.93	0.25	0.00	0.00	---
	6200.00	90.00	0.25	4960.00	1444.93	1444.92	6.37	1444.93	0.25	0.00	0.00	---
	6220.00	90.00	0.25	4960.00	1464.93	1464.92	6.46	1464.93	0.25	0.00	0.00	---
	6240.00	90.00	0.25	4960.00	1484.93	1484.92	6.54	1484.93	0.25	0.00	0.00	---
	6260.00	90.00	0.25	4960.00	1504.93	1504.92	6.63	1504.93	0.25	0.00	0.00	---
	6280.00	90.00	0.25	4960.00	1524.93	1524.91	6.72	1524.93	0.25	0.00	0.00	---
	6300.00	90.00	0.25	4960.00	1544.93	1544.91	6.81	1544.93	0.25	0.00	0.00	---
	6320.00	90.00	0.25	4960.00	1564.93	1564.91	6.90	1564.93	0.25	0.00	0.00	---
	6340.00	90.00	0.25	4960.00	1584.93	1584.91	6.99	1584.93	0.25	0.00	0.00	---
	6360.00	90.00	0.25	4960.00	1604.93	1604.91	7.07	1604.93	0.25	0.00	0.00	---
	6380.00	90.00	0.25	4960.00	1624.93	1624.91	7.16	1624.93	0.25	0.00	0.00	---
	6400.00	90.00	0.25	4960.00	1644.93	1644.91	7.25	1644.93	0.25	0.00	0.00	---
	6420.00	90.00	0.25	4960.00	1664.93	1664.91	7.34	1664.93	0.25	0.00	0.00	---
	6440.00	90.00	0.25	4960.00	1684.93	1684.91	7.43	1684.93	0.25	0.00	0.00	---
	6460.00	90.00	0.25	4960.00	1704.93	1704.91	7.51	1704.93	0.25	0.00	0.00	---
	6480.00	90.00	0.25	4960.00	1724.93	1724.91	7.60	1724.93	0.25	0.00	0.00	---
	6500.00	90.00	0.25	4960.00	1744.93	1744.91	7.69	1744.93	0.25	0.00	0.00	---
	6520.00	90.00	0.25	4960.00	1764.93	1764.91	7.78	1764.93	0.25	0.00	0.00	---
	6540.00	90.00	0.25	4960.00	1784.93	1784.91	7.87	1784.93	0.25	0.00	0.00	---
	6560.00	90.00	0.25	4960.00	1804.93	1804.91	7.95	1804.93	0.25	0.00	0.00	---
	6580.00	90.00	0.25	4960.00	1824.93	1824.91	8.04	1824.93	0.25	0.00	0.00	---
	6600.00	90.00	0.25	4960.00	1844.93	1844.91	8.13	1844.93	0.25	0.00	0.00	---
	6620.00	90.00	0.25	4960.00	1864.93	1864.91	8.22	1864.93	0.25	0.00	0.00	---
	6640.00	90.00	0.25	4960.00	1884.93	1884.91	8.31	1884.93	0.25	0.00	0.00	---
	6660.00	90.00	0.25	4960.00	1904.93	1904.91	8.40	1904.93	0.25	0.00	0.00	---
	6680.00	90.00	0.25	4960.00	1924.93	1924.91	8.48	1924.93	0.25	0.00	0.00	---
	6700.00	90.00	0.25	4960.00	1944.93	1944.91	8.57	1944.93	0.25	0.00	0.00	---
	6720.00	90.00	0.25	4960.00	1964.93	1964.91	8.66	1964.93	0.25	0.00	0.00	---
	6740.00	90.00	0.25	4960.00	1984.93	1984.91	8.75	1984.93	0.25	0.00	0.00	---
	6760.00	90.00	0.25	4960.00	2004.93	2004.91	8.84	2004.93	0.25	0.00	0.00	---
	6780.00	90.00	0.25	4960.00	2024.93	2024.91	8.92	2024.93	0.25	0.00	0.00	---
	6800.00	90.00	0.25	4960.00	2044.93	2044.91	9.01	2044.93	0.25	0.00	0.00	---
	6820.00	90.00	0.25	4960.00	2064.93	2064.91	9.10	2064.93	0.25	0.00	0.00	---
	6840.00	90.00	0.25	4960.00	2084.93	2084.91	9.19	2084.93	0.25	0.00	0.00	---
	6860.00	90.00	0.25	4960.00	2104.93	2104.91	9.28	2104.93	0.25	0.00	0.00	---
	6880.00	90.00	0.25	4960.00	2124.93	2124.91	9.37	2124.93	0.25	0.00	0.00	---
	6900.00	90.00	0.25	4960.00	2144.93	2144.91	9.45	2144.93	0.25	0.00	0.00	---
	6920.00	90.00	0.25	4960.00	2164.93	2164.91	9.54	2164.93	0.25	0.00	0.00	---
	6940.00	90.00	0.25	4960.00	2184.93	2184.91	9.63	2184.93	0.25	0.00	0.00	---
	6960.00	90.00	0.25	4960.00	2204.93	2204.91	9.72	2204.93	0.25	0.00	0.00	---
	6980.00	90.00	0.25	4960.00	2224.93	2224.91	9.81	2224.93	0.25	0.00	0.00	---
	7000.00	90.00	0.25	4960.00	2244.93	2244.91	9.89	2244.93	0.25	0.00	0.00	---
	7020.00	90.00	0.25	4960.00	2264.93	2264.91	9.98	2264.93	0.25	0.00	0.00	---
	7040.00	90.00	0.25	4960.00	2284.93	2284.91	10.07	2284.93	0.25	0.00	0.00	---
	7060.00	90.00	0.25	4960.00	2304.93	2304.91	10.16	2304.93	0.25	0.00	0.00	---
	7080.00	90.00	0.25	4960.00	2324.93	2324.91	10.25	2324.93	0.25	0.00	0.00	---
	7100.00	90.00	0.25	4960.00	2344.93	2344.91	10.33	2344.93	0.25	0.00	0.00	---
	7120.00	90.00	0.25	4960.00	2364.93	2364.91	10.42	2364.93	0.25	0.00	0.00	---
	7140.00	90.00	0.25	4960.00	2384.93	2384.91	10.51	2384.93	0.25	0.00	0.00	---
	7160.00	90.00	0.25	4960.00	2404.93	2404.91	10.60	2404.93	0.25	0.00	0.00	---
	7180.00	90.00	0.25	4960.00	2424.93	2424.91	10.69	2424.93	0.25	0.00	0.00	---
	7200.00	90.00	0.25	4960.00	2444.93	2444.91	10.78	2444.93	0.25	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	0.25	4960.00	2464.93	2464.91	10.86	2464.93	0.25	0.00	0.00	---
	7240.00	90.00	0.25	4960.00	2484.93	2484.91	10.95	2484.93	0.25	0.00	0.00	---
	7260.00	90.00	0.25	4960.00	2504.93	2504.91	11.04	2504.93	0.25	0.00	0.00	---
	7280.00	90.00	0.25	4960.00	2524.93	2524.91	11.13	2524.93	0.25	0.00	0.00	---
	7300.00	90.00	0.25	4960.00	2544.93	2544.90	11.22	2544.93	0.25	0.00	0.00	---
	7320.00	90.00	0.25	4960.00	2564.93	2564.90	11.30	2564.93	0.25	0.00	0.00	---
	7340.00	90.00	0.25	4960.00	2584.93	2584.90	11.39	2584.93	0.25	0.00	0.00	---
	7360.00	90.00	0.25	4960.00	2604.93	2604.90	11.48	2604.93	0.25	0.00	0.00	---
	7380.00	90.00	0.25	4960.00	2624.93	2624.90	11.57	2624.93	0.25	0.00	0.00	---
	7400.00	90.00	0.25	4960.00	2644.93	2644.90	11.66	2644.93	0.25	0.00	0.00	---
	7420.00	90.00	0.25	4960.00	2664.93	2664.90	11.75	2664.93	0.25	0.00	0.00	---
	7440.00	90.00	0.25	4960.00	2684.93	2684.90	11.83	2684.93	0.25	0.00	0.00	---
	7460.00	90.00	0.25	4960.00	2704.93	2704.90	11.92	2704.93	0.25	0.00	0.00	---
	7480.00	90.00	0.25	4960.00	2724.93	2724.90	12.01	2724.93	0.25	0.00	0.00	---
	7500.00	90.00	0.25	4960.00	2744.93	2744.90	12.10	2744.93	0.25	0.00	0.00	---
	7520.00	90.00	0.25	4960.00	2764.93	2764.90	12.19	2764.93	0.25	0.00	0.00	---
	7540.00	90.00	0.25	4960.00	2784.93	2784.90	12.27	2784.93	0.25	0.00	0.00	---
	7560.00	90.00	0.25	4960.00	2804.93	2804.90	12.36	2804.93	0.25	0.00	0.00	---
	7580.00	90.00	0.25	4960.00	2824.93	2824.90	12.45	2824.93	0.25	0.00	0.00	---
	7600.00	90.00	0.25	4960.00	2844.93	2844.90	12.54	2844.93	0.25	0.00	0.00	---
	7620.00	90.00	0.25	4960.00	2864.93	2864.90	12.63	2864.93	0.25	0.00	0.00	---
	7640.00	90.00	0.25	4960.00	2884.93	2884.90	12.71	2884.93	0.25	0.00	0.00	---
	7660.00	90.00	0.25	4960.00	2904.93	2904.90	12.80	2904.93	0.25	0.00	0.00	---
	7680.00	90.00	0.25	4960.00	2924.93	2924.90	12.89	2924.93	0.25	0.00	0.00	---
	7700.00	90.00	0.25	4960.00	2944.93	2944.90	12.98	2944.93	0.25	0.00	0.00	---
	7720.00	90.00	0.25	4960.00	2964.93	2964.90	13.07	2964.93	0.25	0.00	0.00	---
	7740.00	90.00	0.25	4960.00	2984.93	2984.90	13.16	2984.93	0.25	0.00	0.00	---
	7760.00	90.00	0.25	4960.00	3004.93	3004.90	13.24	3004.93	0.25	0.00	0.00	---
	7780.00	90.00	0.25	4960.00	3024.93	3024.90	13.33	3024.93	0.25	0.00	0.00	---
	7800.00	90.00	0.25	4960.00	3044.93	3044.90	13.42	3044.93	0.25	0.00	0.00	---
	7820.00	90.00	0.25	4960.00	3064.93	3064.90	13.51	3064.93	0.25	0.00	0.00	---
	7840.00	90.00	0.25	4960.00	3084.93	3084.90	13.60	3084.93	0.25	0.00	0.00	---
	7860.00	90.00	0.25	4960.00	3104.93	3104.90	13.68	3104.93	0.25	0.00	0.00	---
	7880.00	90.00	0.25	4960.00	3124.93	3124.90	13.77	3124.93	0.25	0.00	0.00	---
	7900.00	90.00	0.25	4960.00	3144.93	3144.90	13.86	3144.93	0.25	0.00	0.00	---
	7920.00	90.00	0.25	4960.00	3164.93	3164.90	13.95	3164.93	0.25	0.00	0.00	---
	7940.00	90.00	0.25	4960.00	3184.93	3184.90	14.04	3184.93	0.25	0.00	0.00	---
	7960.00	90.00	0.25	4960.00	3204.93	3204.90	14.13	3204.93	0.25	0.00	0.00	---
	7980.00	90.00	0.25	4960.00	3224.93	3224.90	14.21	3224.93	0.25	0.00	0.00	---
	8000.00	90.00	0.25	4960.00	3244.93	3244.90	14.30	3244.93	0.25	0.00	0.00	---
	8020.00	90.00	0.25	4960.00	3264.93	3264.90	14.39	3264.93	0.25	0.00	0.00	---
	8040.00	90.00	0.25	4960.00	3284.93	3284.90	14.48	3284.93	0.25	0.00	0.00	---
	8060.00	90.00	0.25	4960.00	3304.93	3304.90	14.57	3304.93	0.25	0.00	0.00	---
	8080.00	90.00	0.25	4960.00	3324.93	3324.90	14.65	3324.93	0.25	0.00	0.00	---
	8100.00	90.00	0.25	4960.00	3344.93	3344.90	14.74	3344.93	0.25	0.00	0.00	---
	8120.00	90.00	0.25	4960.00	3364.93	3364.90	14.83	3364.93	0.25	0.00	0.00	---
	8140.00	90.00	0.25	4960.00	3384.93	3384.90	14.92	3384.93	0.25	0.00	0.00	---
	8160.00	90.00	0.25	4960.00	3404.93	3404.90	15.01	3404.93	0.25	0.00	0.00	---
	8180.00	90.00	0.25	4960.00	3424.93	3424.90	15.09	3424.93	0.25	0.00	0.00	---
	8200.00	90.00	0.25	4960.00	3444.93	3444.90	15.18	3444.93	0.25	0.00	0.00	---
	8220.00	90.00	0.25	4960.00	3464.93	3464.90	15.27	3464.93	0.25	0.00	0.00	---
	8240.00	90.00	0.25	4960.00	3484.93	3484.90	15.36	3484.93	0.25	0.00	0.00	---
	8260.00	90.00	0.25	4960.00	3504.93	3504.90	15.45	3504.93	0.25	0.00	0.00	---
	8280.00	90.00	0.25	4960.00	3524.93	3524.90	15.54	3524.93	0.25	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	0.25	4960.00	3544.93	3544.90	15.62	3544.93	0.25	0.00	0.00	---
	8320.00	90.00	0.25	4960.00	3564.93	3564.90	15.71	3564.93	0.25	0.00	0.00	---
	8340.00	90.00	0.25	4960.00	3584.93	3584.89	15.80	3584.93	0.25	0.00	0.00	---
	8360.00	90.00	0.25	4960.00	3604.93	3604.89	15.89	3604.93	0.25	0.00	0.00	---
	8380.00	90.00	0.25	4960.00	3624.93	3624.89	15.98	3624.93	0.25	0.00	0.00	---
	8400.00	90.00	0.25	4960.00	3644.93	3644.89	16.06	3644.93	0.25	0.00	0.00	---
	8420.00	90.00	0.25	4960.00	3664.93	3664.89	16.15	3664.93	0.25	0.00	0.00	---
	8440.00	90.00	0.25	4960.00	3684.93	3684.89	16.24	3684.93	0.25	0.00	0.00	---
	8460.00	90.00	0.25	4960.00	3704.93	3704.89	16.33	3704.93	0.25	0.00	0.00	---
	8480.00	90.00	0.25	4960.00	3724.93	3724.89	16.42	3724.93	0.25	0.00	0.00	---
	8500.00	90.00	0.25	4960.00	3744.93	3744.89	16.51	3744.93	0.25	0.00	0.00	---
	8520.00	90.00	0.25	4960.00	3764.93	3764.89	16.59	3764.93	0.25	0.00	0.00	---
	8540.00	90.00	0.25	4960.00	3784.93	3784.89	16.68	3784.93	0.25	0.00	0.00	---
	8560.00	90.00	0.25	4960.00	3804.93	3804.89	16.77	3804.93	0.25	0.00	0.00	---
	8580.00	90.00	0.25	4960.00	3824.93	3824.89	16.86	3824.93	0.25	0.00	0.00	---
	8600.00	90.00	0.25	4960.00	3844.93	3844.89	16.95	3844.93	0.25	0.00	0.00	---
	8620.00	90.00	0.25	4960.00	3864.93	3864.89	17.03	3864.93	0.25	0.00	0.00	---
	8640.00	90.00	0.25	4960.00	3884.93	3884.89	17.12	3884.93	0.25	0.00	0.00	---
	8660.00	90.00	0.25	4960.00	3904.93	3904.89	17.21	3904.93	0.25	0.00	0.00	---
	8680.00	90.00	0.25	4960.00	3924.93	3924.89	17.30	3924.93	0.25	0.00	0.00	---
PBHL	8696.77	90.00	0.25	4960.00	3941.70	3941.66	17.37	3941.70	0.25	0.00	0.00	---