

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34480		Pool Code 40760	Pool Name Northeast Lovington Penn
Property Code 25248	Property Name Cayuma		Well Number 1
OGRID No. 013954	Operator Name Manzano Oil Corporation		Elevation 3879'

¹⁰ Surface Location

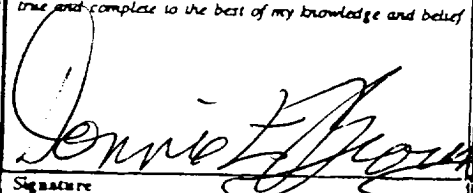
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Lot 13	1	16S	36E		3580	South	990	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
13	1	16s	36e		3807	S	1180	West	Lea

" Dedication Acres	" Joint or Infill	" Consolidation Code	" Order No.
80			

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

16	12	11	10	9	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Donnie E. Brown Printed Name VP Engineering Title 5/17/00 Date	
40.00 AC	40.00 AC	40.00 AC	40.00 AC	15		16
1180' 2"	990'	Bottom Hole Location				
Surface Location						
40.00 AC	40.00 AC	40.00 AC	40.00 AC	40.00 AC	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was placed 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	
3580'	3807'					

Manzano Oil Company

Structure : Cayuma 1A

Slot : slot #1

Field : UNKNOWN

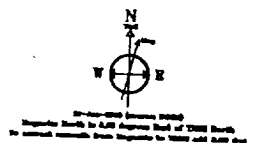
Location : LEA COUNTY, NEW MEXICO

Lot 13-1-165-36e

Sur : 3580/s & 990/w

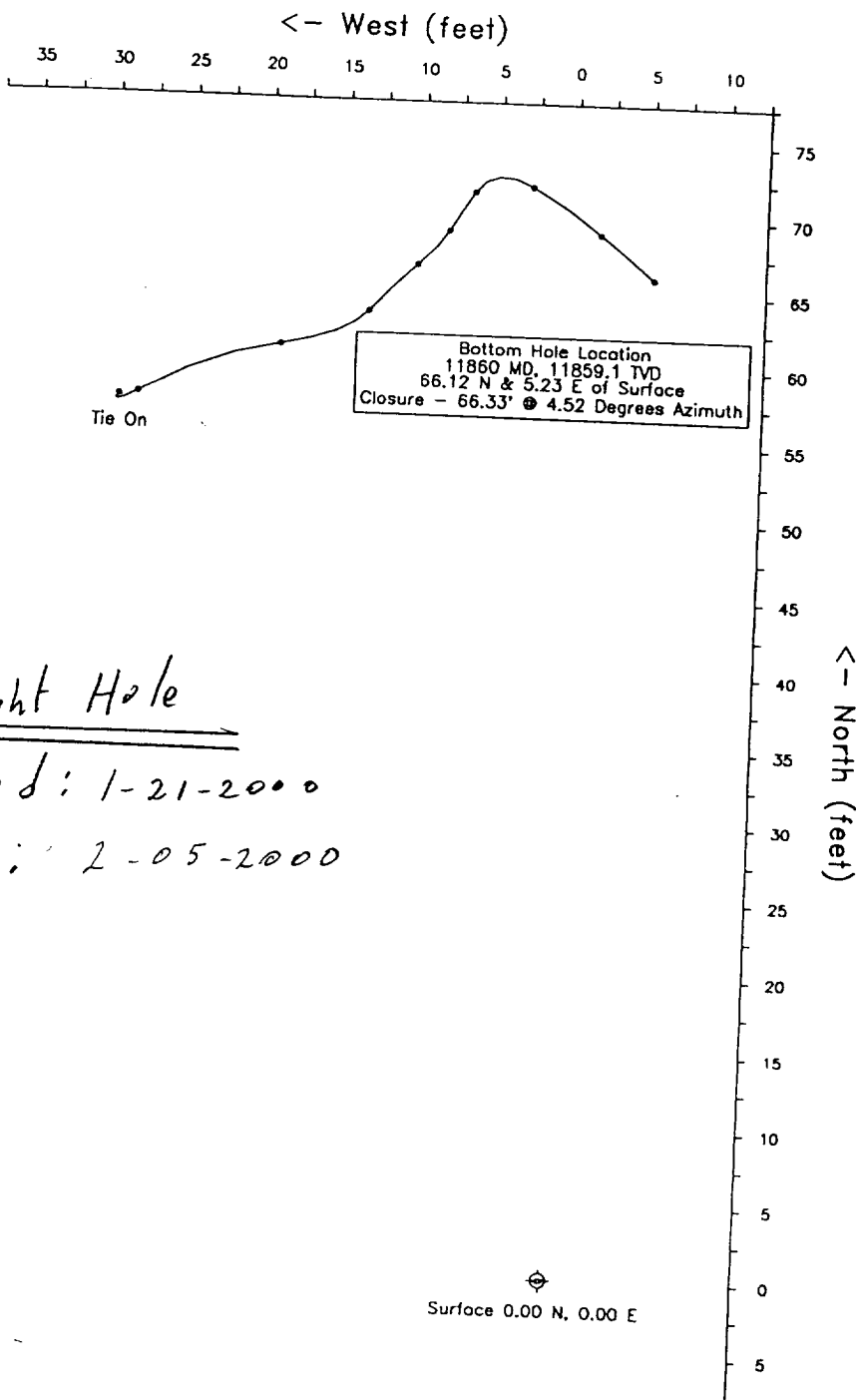
BHL : 3807/s & 1180/w

30-025-34480



**BAKER
HUGHES**

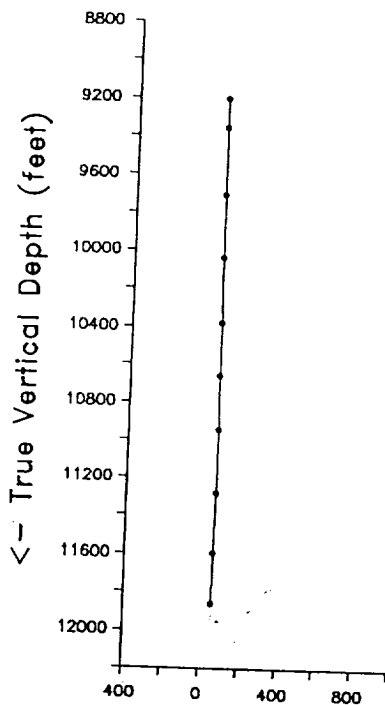
INTEQ



Straight Hole

Started : 1-21-2000

TD : 2-05-2000



Vertical Section (feet) ->

Azimuth 342.62 with reference 0.00 N, 0.00 E from slot #1

Created by bartw
Date plotted : 11-May-2000
Plot Reference is Sidetrack 1.
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
----- Baker Hughes INTEQ -----

Manzano Oil Company
Cayuma 1A

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : Sidetrack 1
Our ref : svy1347
License :

Date printed : 11-May-2000
Date created : 27-Jan-2000
Last revised : 11-May-2000

Field is centred on n33 30 0.000,w103 30 0
Structure is centred on n33 30 0.000,w103 30 0

Slot location is n33 30 0.000,w103 30 0.000
Slot Grid coordinates are N 910447.292, E 754038.883
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

Manzano Oil Company
Cayuma 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack 1
Last revised : 11-May-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
9200.00	0.93	219.95	9199.50	57.45 N	0.00	63.66
9351.00	1.75	60.00	9350.48	57.66 N	1.75	63.50
9704.00	1.50	80.00	9703.34	61.16 N	0.17	64.09
10038.00	0.75	40.00	10037.28	63.59 N	0.31	64.70
10378.00	0.75	49.00	10377.25	66.76 N	0.03	66.79
10661.00	0.50	29.00	10660.23	69.05 N	0.12	68.39
10944.00	0.75	34.00	10943.22	71.67 N	0.09	70.40
11282.00	1.00	119.00	11281.19	72.07 N	0.35	69.64
11595.00	1.00	129.00	11594.14	69.03 N	0.06	65.39
11860.00	1.00	129.00	11859.10	66.12 N	0.00	61.54

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 66.33 on azimuth 4.52 degrees from wellhead.
Vertical section is from wellhead on azimuth 342.62 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Manzano Oil Company

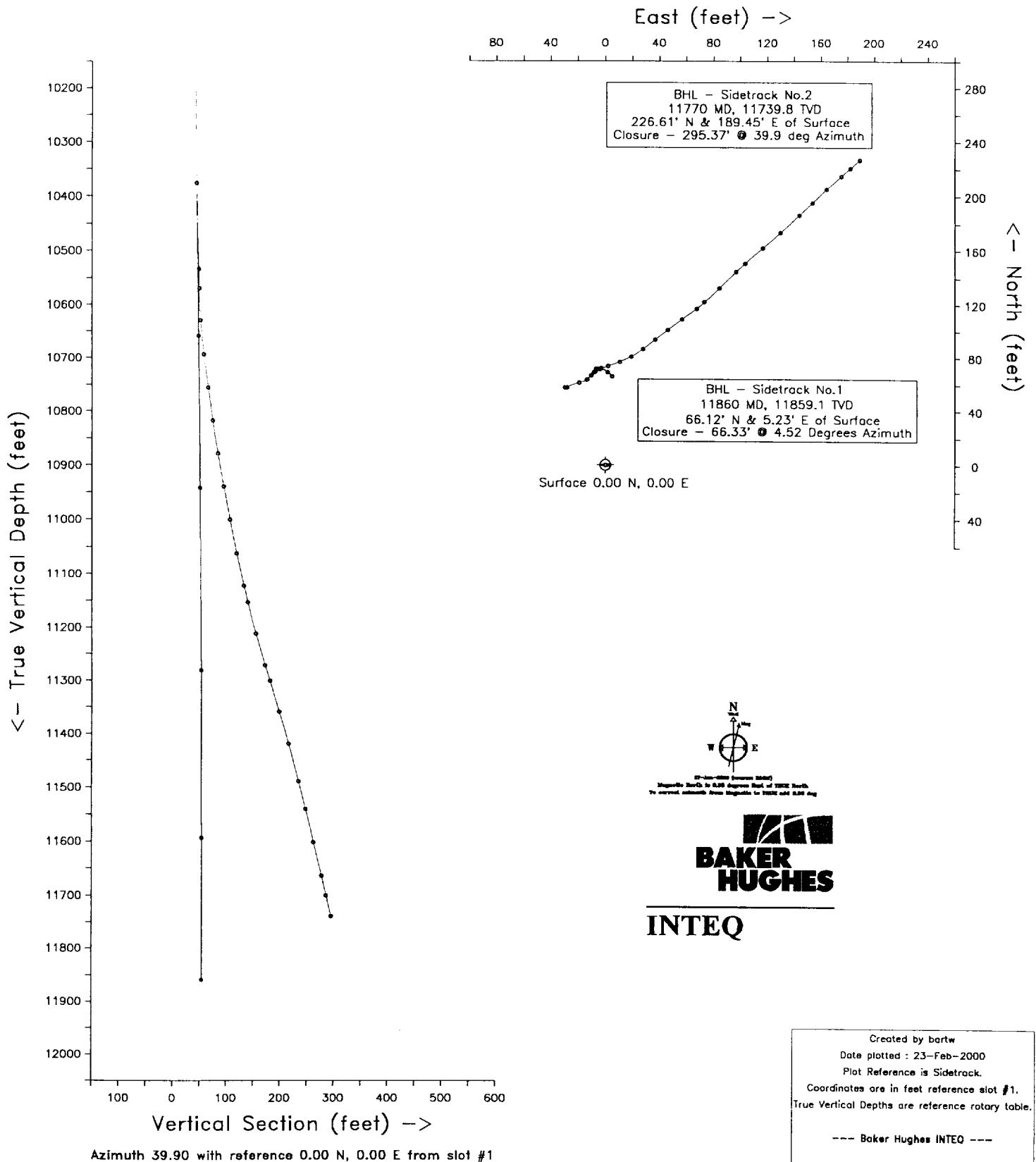
Structure : Cayuma 1A

Slot : slot #1

Field : UNKNOWN

Location : LEA COUNTY, NEW MEXICO

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Manzano Oil Company
Cayuma 1A

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : Sidetrack
Our ref : svy1347
License :

Date printed : 23-Feb-2000
Date created : 27-Jan-2000
Last revised : 23-Feb-2000

Field is centred on n33 30 0.000,w103 30 0
Structure is centred on n33 30 0.000,w103 30 0

Slot location is n33 30 0.000,w103 30 0.000
Slot Grid coordinates are N 910447.292, E 754038.883
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is True North

Manzano Oil Company
Cayuma 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

CONCH

SURVEY LISTING Page 1
Your ref : Sidetrack
Last revised : 23-Feb-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
9200.00	0.93	219.95	9199.50	57.45 N 29.57 W	0.00	63.66
9351.00	1.75	60.00	9350.48	57.66 N 28.36 W	1.75	63.50
9704.00	1.50	80.00	9703.34	61.16 N 19.14 W	0.17	64.09
10038.00	0.75	40.00	10037.28	63.59 N 13.43 W	0.31	64.70
10378.00	0.75	49.00	10377.25	66.76 N 10.32 W	0.03	66.79
10661.00	0.50	29.00	10660.23	69.05 N 8.33 W	0.12	68.39
10944.00	0.75	34.00	10943.22	71.67 N 6.69 W	0.09	70.40
11282.00	1.00	119.00	11281.19	72.07 N 2.87 W	0.35	69.64
11595.00	1.00	129.00	11594.14	69.03 N 1.64 E	0.06	65.39
11860.00	1.00	129.00	11859.10	66.12 N 5.23 E	0.00	61.54

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 66.33 on azimuth 4.52 degrees from wellhead.
Vertical section is from wellhead on azimuth 342.62 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Manzano Oil Company
Cayuma 1A

slot #1
UNKNOWN
LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : Sidetrack 2
Our ref : svy1354
License :

Date printed : 23-Feb-2000
Date created : 9-Feb-2000
Last revised : 23-Feb-2000

Field is centred on n33 30 0.000,w103 30 0
Structure is centred on n33 30 0.000,w103 30 0

Slot location is n33 30 0.000,w103 30 0.000
Slot Grid coordinates are N 910447.292, E 754038.883
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866
Reference North is True North

Manzano Oil Company
Cayuma 1A, slot #1
UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrack 2
Last revised : 23-Feb-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
9200.00	0.93	219.95	9199.50	57.45 N 29.57 W	0.00	2.87
9351.00	1.75	60.00	9350.48	57.66 N 28.36 W	1.75	4.02
9704.00	1.50	80.00	9703.34	61.16 N 19.14 W	0.17	13.76
10038.00	0.75	40.00	10037.28	63.59 N 13.43 W	0.31	19.93
10378.00	0.75	49.00	10377.25	66.76 N 10.32 W	0.03	24.20
10536.00	1.80	44.50	10535.21	69.21 N 7.80 W	0.67	27.60
10571.00	1.90	46.80	10570.19	70.00 N 6.99 W	0.36	28.69
10632.00	4.30	69.80	10631.10	71.48 N 4.11 W	4.36	31.93
10696.00	7.70	70.70	10694.74	73.73 N 2.19 E	5.31	38.52
10759.00	8.70	69.20	10757.09	76.81 N 10.63 E	1.62	47.37
10821.00	9.00	60.60	10818.36	80.86 N 19.24 E	2.19	56.85
10883.00	10.20	53.20	10879.49	86.53 N 27.86 E	2.77	67.15
10946.00	11.00	52.10	10941.42	93.56 N 37.07 E	1.31	78.64
11007.00	11.60	52.70	11001.23	100.85 N 46.54 E	1.00	90.48
11071.00	12.20	52.30	11063.86	108.89 N 57.01 E	0.95	103.56
11132.00	13.40	51.30	11123.34	117.25 N 67.62 E	2.00	116.93
11164.00	13.70	49.50	11154.45	122.03 N 73.40 E	1.62	124.31
11224.00	15.70	44.50	11212.49	132.43 N 84.49 E	3.94	139.11
11286.00	17.20	46.50	11271.95	144.73 N 97.02 E	2.59	156.09
11317.00	16.80	48.30	11301.59	150.86 N 103.69 E	2.13	164.93
11378.00	16.20	49.70	11360.08	162.23 N 116.77 E	1.18	181.92
11441.00	15.70	48.10	11420.66	173.61 N 129.81 E	1.06	198.89
11513.00	15.00	47.20	11490.09	186.45 N 143.90 E	1.03	217.50
11566.00	13.90	46.60	11541.41	195.48 N 153.56 E	2.09	230.37
11629.00	13.20	49.10	11602.66	205.39 N 164.49 E	1.45	244.78

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 295.37 on azimuth 39.90 degrees from wellhead.
Vertical section is from wellhead on azimuth 60.22 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Manzano Oil Company
 Cayuma 1A, slot #1
 UNKNOWN, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
 Your ref : Sidetrack 2
 Last revised : 23-Feb-2000

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
11693.00	13.40	48.80	11664.94	215.06 N 175.60 E	0.33	259.22
11730.00	13.60	50.60	11700.92	220.64 N 182.18 E	1.26	267.71
11770.00	13.60	50.60	11739.80	226.61 N 189.45 E	0.00	276.98

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 295.37 on azimuth 39.90 degrees from wellhead.
 Vertical section is from wellhead on azimuth 60.22 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ