

**DIRECTIONAL
COMPLETION REPORT**

**HALLWOOD
PETROLEUM, INC.**

B. MONTOKA #25-1

**SEC. 25 - T32N - R13W
SAN JUAN COUNTY, NEW MEXICO**

PREPARED FOR: Mr. KEVIN O'CONNELL

ACCOUNT MANAGER: MIKE CRADER

**PREPARED FOR: DAVID B. EGEDAH
OPERATIONS ENGINEER**

APR 27 1998

CON. DIV.
PMT. 3

FEBRUARY 6, 1998

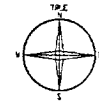
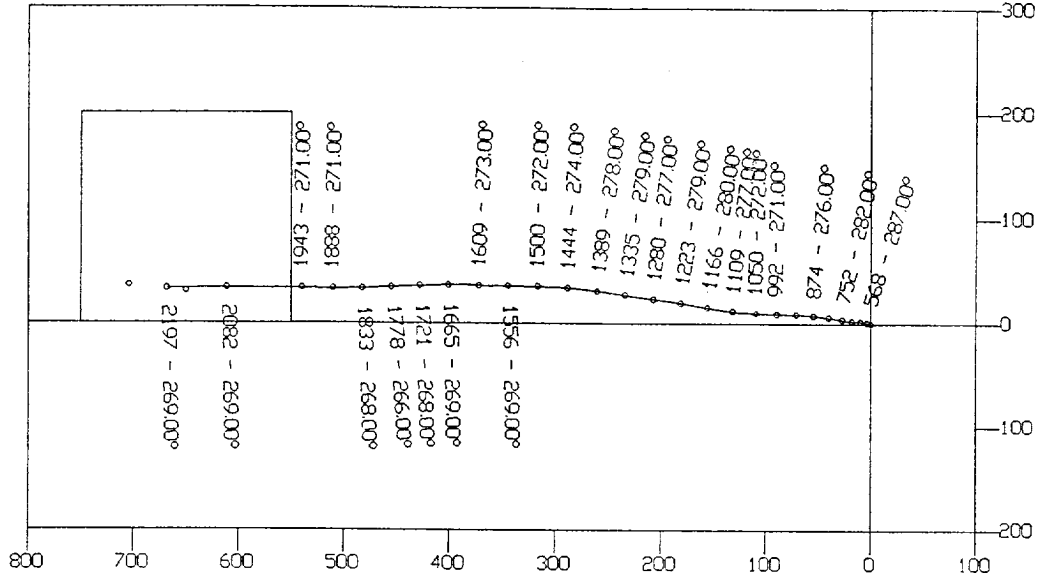
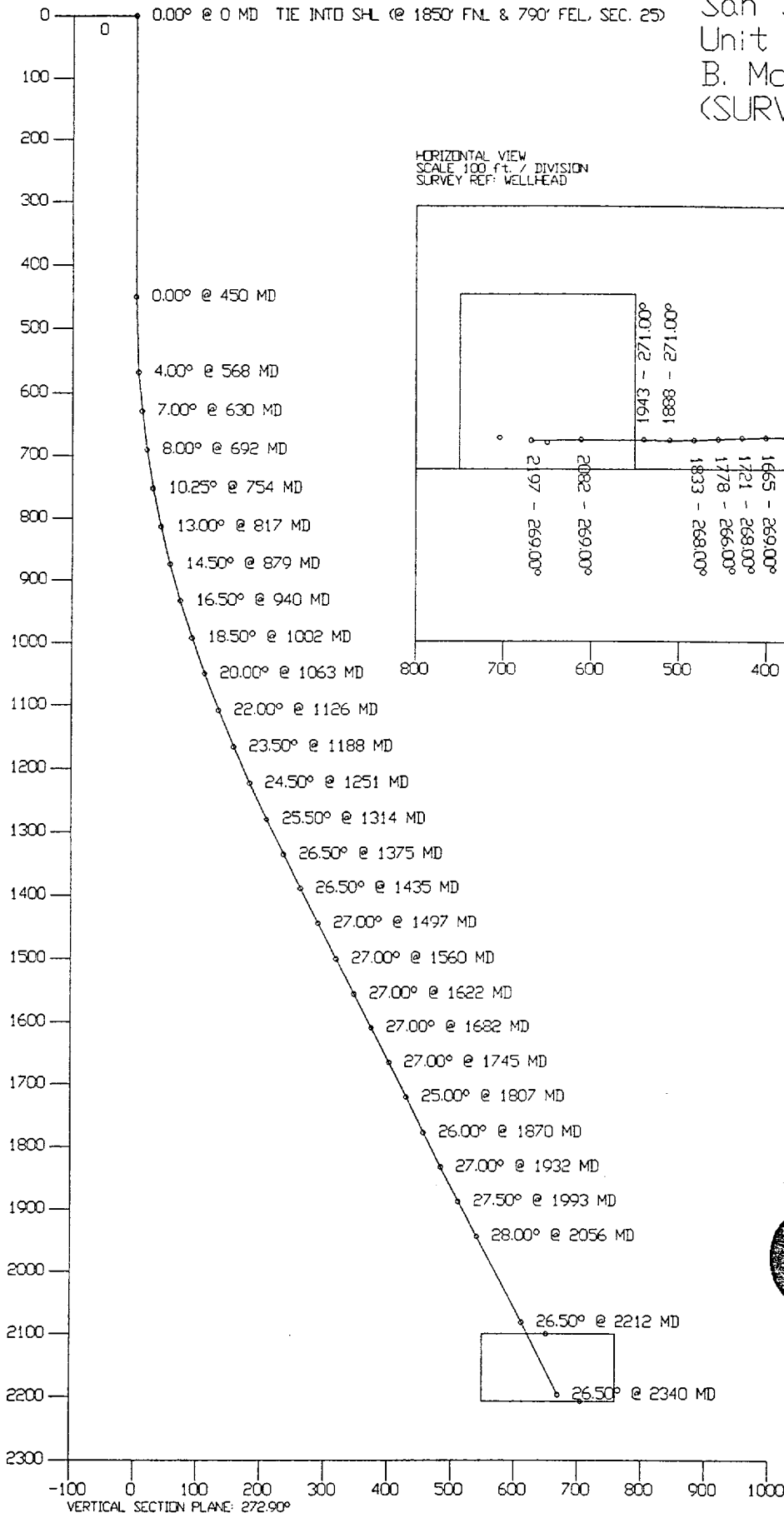


HALLIBURTON

VERTICAL VIEW
SCALE: 100 ft. / DIVISION
TVD REF: WELLHEAD
VERTICAL SECTION REF: WELLHEAD

Hallwood Petroleum Company
San Juan County, New Mexico
Unit H (Sec. 25 - T32N - R13W)
B. Montoya #25-1 Sidetrack
(SURVEY)

HORIZONTAL VIEW
SCALE: 100 ft. / DIVISION
SURVEY REF: WELLHEAD



BHL DATA	
TVD	2196.53
MD	2340.00
VS	669.12
N/S	32.36 N
E/W	668.33 W



2/9/98 4:53 pm

Halliburton

Survey Report

Page 1
Job No: 206263-2
Date: 2/9/98
Time: 4:34 pm
Wellpath ID: B. MONTOYA #25-1
Date Created: 1/11/98
Last Revision: 2/9/98

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6 - BETA
Vertical Section Plane: 272.90 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

Hallwood Petroleum Company
San Juan County, New Mexico
Unit H (Sec. 25 - T32N - R13W)
B. Montoya #25-1 Sidetrack
(SURVEY)

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
TIE INTO SHL (@ 1850' FNL & 790' FEL, SEC. 25)									
0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00
ASSUME VERTICAL TO 450' TVD									
450.00	0.00	0.00	450.00	450.00	0.00 N	0.00 E	0.00	0.00	0.00
RUN #1; HALLIBURTON D-500 w/ 1.5° B.S. IN @ 490'									
568.00	4.00	287.00	118.00	567.90	1.20 N	3.94W	0.00	3.39	3.39
630.00	7.00	274.00	62.00	629.61	2.10 N	9.78W	-20.97	4.84	5.21
692.00	8.00	273.00	62.00	691.08	2.59 N	17.85W	-1.61	1.61	1.63
754.00	10.25	282.00	62.00	752.30	3.96 N	27.56W	14.52	3.63	4.29
817.00	13.00	278.00	63.00	814.00	6.11 N	40.06W	-6.35	4.37	4.55
879.00	14.50	276.00	62.00	874.22	7.90 N	54.69W	-3.23	2.42	2.54
940.00	16.50	272.00	61.00	933.00	9.00 N	70.94W	-6.56	3.28	3.72

Halliburton

Survey Report

Page 2
Date: 2/9/98
Wellpath ID: B. MONTOYA #25-1

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Course Length (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Walk Rate (dg/100ft)	Build Rate (dg/100ft)	DLS (dg/100ft)
1002.00	18.50	271.00	62.00	992.13	9.48 N	89.58W	-1.61	3.23	3.26
1063.00	20.00	272.00	61.00	1049.72	10.01 N	109.68W	1.64	2.46	2.52
1126.00	22.00	277.00	63.00	1108.53	11.82 N	132.16W	7.94	3.17	4.26
1188.00	23.50	280.00	62.00	1165.71	15.39 N	155.87W	4.84	2.42	3.06
1251.00	24.50	279.00	63.00	1223.26	19.61 N	181.14W	-1.59	1.59	1.71
1314.00	25.50	277.00	63.00	1280.36	23.31 N	207.50W	-3.17	1.59	2.08
1375.00	26.50	279.00	61.00	1335.19	27.04 N	233.98W	3.28	1.64	2.18
1435.00	26.50	278.00	60.00	1388.89	30.99 N	260.45W	-1.67	0.00	0.74
1497.00	27.00	274.00	62.00	1444.25	33.90 N	288.19W	-6.45	0.81	3.01
1560.00	27.00	272.00	63.00	1500.39	35.40 N	316.75W	-3.17	0.00	1.44
1622.00	27.00	269.00	62.00	1555.63	35.64 N	344.89W	-4.84	0.00	2.20
1682.00	27.00	273.00	60.00	1609.10	36.12 N	372.11W	6.67	0.00	3.03
1745.00	27.00	269.00	63.00	1665.24	36.62 N	400.69W	-6.35	0.00	2.88
1807.00	25.00	268.00	62.00	1720.96	35.91 N	427.86W	-1.61	-3.23	3.30
1870.00	26.00	266.00	63.00	1777.82	34.49 N	454.94W	-3.17	1.59	2.09
1932.00	27.00	268.00	62.00	1833.31	33.05 N	482.56W	3.23	1.61	2.16
1993.00	27.50	271.00	61.00	1887.54	32.81 N	510.48W	4.92	0.82	2.40
2056.00	28.00	271.00	63.00	1943.30	33.32 N	539.81W	0.00	0.79	0.79
FINAL SINGLE SHOT SURVEY @ 2212' MD									
2212.00	26.50	269.00	156.00	2081.98	33.35 N	611.23W	-1.28	-0.96	1.13
STRAIGHT LINE PROJECTION TO TD @ 2340' MD									
2340.00	26.50	269.00	128.00	2196.53	32.36 N	668.33W	0.00	0.00	0.00



HALLIBURTON

POST WELL SUMMARY

From January 11, 1998 To January 17, 1998

Page 1
2/9/98 2:48:02 pm
Version VER2.2.6 - BETA

Job No.: 206263-2
Operator: HALLWOOD PETROLEUM, Inc.
Field: SAN JUAN CO., NM
Well: B. MONTOKA #25-1

AFE No.: BIG A RIG #19
Location: SE/NE SEC 25 - T32N - R13W
MWD Operator(s):
Dir'l Driller(s): Frank Benedetti

Company Man: Mr. Jeff Pickett

FOOTAGE DRILLING AVERAGE DRILLING AVERAGE DRILLING
DRLLED HOURS ROP DAYS FTG/DAY HRS/DAY

1733.00 57.67 30.05 9.08 190.81 6.35

RUN BHA DEPTH ANGLE DRILLING AVERAGE AVERAGE FLOW ON-BOTTOM MAX. BH TEMP MOTOR
No. No. IN IN OUT OUT HOURS HOURS ROP BUILD gpm psi °F SERIAL No.

1 1 490.00 1.36 2101.00 27.56 1611.00 53.17 30.30 1.63 0 769 0.00 D-65858
2 2 2101.00 27.56 2223.00 26.50 122.00 4.50 27.11 -0.87 0 800 0.00 N/A

RUN BHA BIT BIT NOZZLES (1/32nd) MOTOR Description_CAP STAB DISTANCE REASON
No. No. SIZE(in) MODEL NOZZLES (1/32nd) Description_CAP O.D. CTR TO BIT FOR TRIP

1 1 7-7/8" GT-18C 16 16 16 6-1/2" Delta 500 TQ - Torque
2 2 7-7/8" R1 13 13 13 NO MOTOR 7.813 2.00 END - End of job

RUN BHA SLIDE ROTATE SLIDE ROTATE ROTATE CIRCULATE
No. No. FTG FTG HRS HRS HRS ROP HRS COMMENTS

1 1 1611.00 0.00 53.17 0.00 30.30 0.00 55.08 BUILD TO 34° INCLINATION AT 272.9° DIRECTION.
2 2 0.00 122.00 0.00 4.50 0.00 27.11 16.50 Ream motor run, maintain course to T.D...

VERTICAL VIEW
SCALE 100 FT. / DIVISION
TVD REF: WELLHEAD
VERTICAL SECTION REF: WELLHEAD

Hallwood Petroleum Company
San Juan County, New Mexico
Unit H (Sec. 25 - T32N - R13W)
B. Montoya #25-1 Sidetrack
(SURVEY)

TOTAL DEPTH
2340' MD, 2197' TVD, 1818' FNL X 1458' FEL

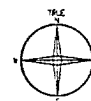
HORIZONTAL VIEW
SCALE 100 FT. / DIVISION
SURVEY REF: WELLHEAD

2212' MD, 2082' TVD
TOP OF BASAL FLINTLAND COAL
1817' FNL X 1401' FEL

TARGET AREA

SURFACE LOCATION
IS

AT 1850' FNL
X 790' FEL
SECTION 25-T32N-R13W
SAN JUAN CO, NM

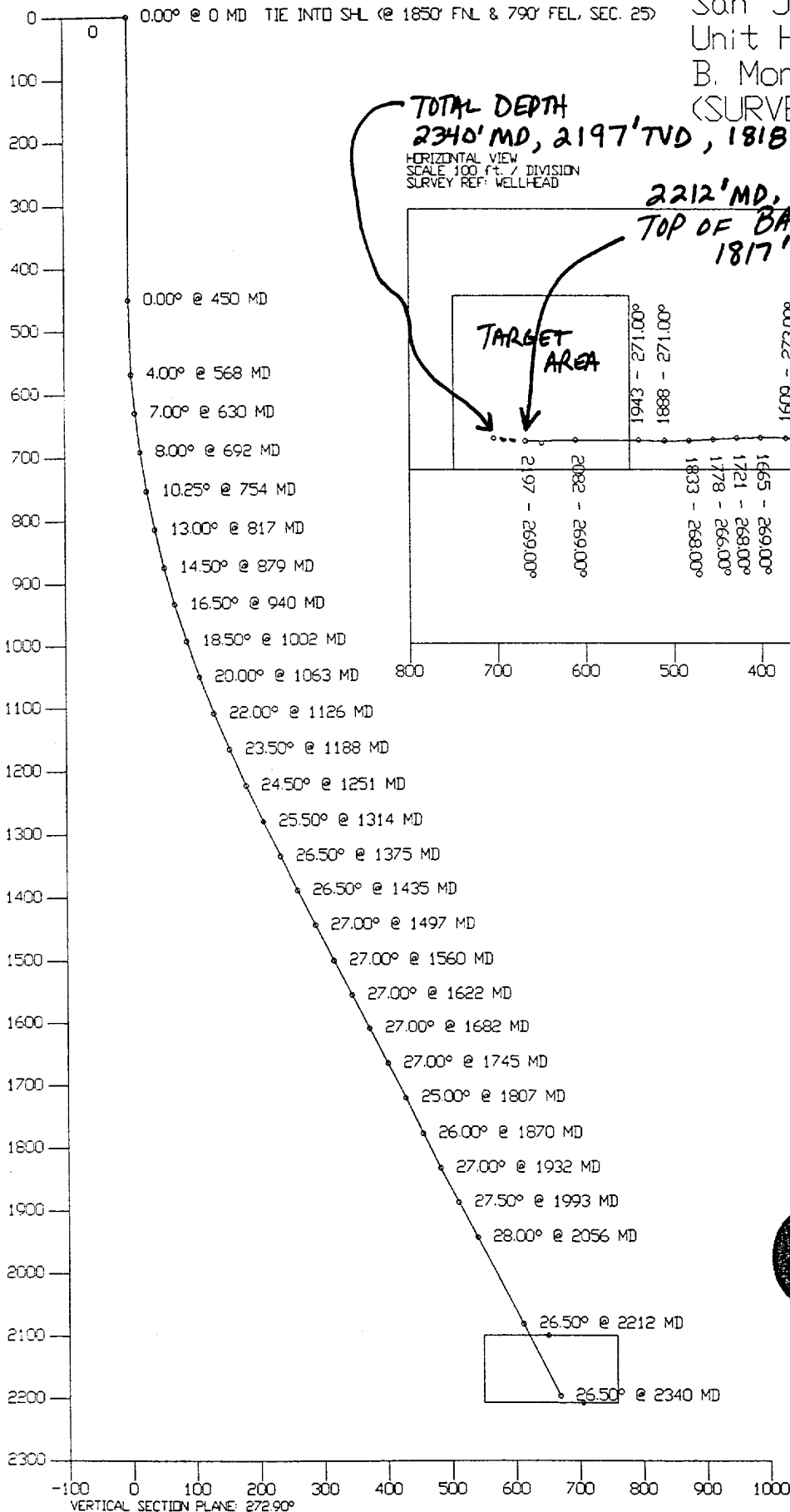


BHL DATA

TVD	2196.53
MD	2340.00
VS	669.12
N/S	32.36 N
E/W	668.33 W



2/9/98 4:53 pm



Halliburton

Survey Report

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Job No: 206263-2
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Wellpath ID: B. MONTOYA #25-1
Date Created: 1/11/98
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Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6 - BETA
Vertical Section Plane: 272.90 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
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Hallwood Petroleum Company
San Juan County, New Mexico
Unit H (Sec. 25 - T32N - R13W)
B. Montoya #25-1 Sidetrack
(SURVEY)

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TIE INTO SHL (@ 1850' FNL & 790' FEL, SEC. 25)									
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879.00	14.50	276.00	62.00	874.22	7.90 N	54.69W	-3.23	2.42	2.54
940.00	16.50	272.00	61.00	933.00	9.00 N	70.94W	-6.56	3.28	3.72

Halliburton Survey Report

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Wellpath ID: B. MONTOYA #25-1

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1063.00	20.00	272.00	61.00	1049.72	10.01 N	109.68W	1.64	2.46	2.52
1126.00	22.00	277.00	63.00	1108.53	11.82 N	132.16W	7.94	3.17	4.26
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1435.00	26.50	278.00	60.00	1388.89	30.99 N	260.45W	-1.67	0.00	0.74
1497.00	27.00	274.00	62.00	1444.25	33.90 N	288.19W	-6.45	0.81	3.01
1560.00	27.00	272.00	63.00	1500.39	35.40 N	316.75W	-3.17	0.00	1.44
1622.00	27.00	269.00	62.00	1555.63	35.64 N	344.89W	-4.84	0.00	2.20
1682.00	27.00	273.00	60.00	1609.10	36.12 N	372.11W	6.67	0.00	3.03
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1870.00	26.00	266.00	63.00	1777.82	34.49 N	454.94W	-3.17	1.59	2.09
1932.00	27.00	268.00	62.00	1833.31	33.05 N	482.56W	3.23	1.61	2.16
1993.00	27.50	271.00	61.00	1887.54	32.81 N	510.48W	4.92	0.82	2.40
2056.00	28.00	271.00	63.00	1943.30	33.32 N	539.81W	0.00	0.79	0.79
2212.00	26.50	269.00	156.00	2081.98	33.35 N	611.23W	-1.28	-0.96	1.13
2340.00	26.50	269.00	128.00	2196.53	32.36 N	668.33W	0.00	0.00	0.00

APPX. TOP OF BASAL FRUITLAND COAL PRODUCING ZONE 1817' FNL X 1401' FEL, SEC. 25-T32N-R13W

SURFACE LOCATION IS

1850' FNL X 790' FEL

THEREFORE BHL IS AT 1850' FNL - 32.36' = 1818' FNL } SECTION 25-T32N-R13W
790' FEL ± 110.22' = 1450' FEL }

FINAL SINGLE SHOT SURVEY @ 2212' MD
STRAIGHT LINE PROJECTION TO TD @ 2340' MD

Halliburton Survey Report

Page 2
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2340.00	26.50	269.00	128.00	2196.53	32.36 N	668.33W	0.00	0.00	0.00

APPROX. TOP OF BASAL FRUITLAND COAL PRODUCING ZONE 1817' FNL X 1401' FEL, SEC. 25-T32N-R13W
FINAL SINGLE SHOT SURVEY @ 2212' MD

STRAIGHT LINE PROJECTION TO TD @ 2340' MD

SURFACE LOCATION IS

1850' FNL X 790' FEL

THEREFORE BHL IS AT 1850' FNL - 32.36' = 1818' FNL } SECTION 25-
790' FEL + 668.33' = 1458' FEL } T32N-R13W