

*REPORT OF SUB-SURFACE
DIRECTIONAL SURVEY*

MERIDIAN OIL INCORPORATED

COMPANY *I-31-277-1010*

HUERFANO UNIT NO. 300

WELL NAME

RECEIVED

DEC 02 1991.

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***REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY***

MERIDIAN OIL INCORPORATED
COMPANY

HUERFANO UNIT NO. 300
WELL NAME

SAN JUAN COUNTY, NEW MEXICO
LOCATION

JOB NUMBER
413-618

TYPE OF SURVEY
ELECTRONIC MULTI SHOT SURVEY

DATE
31-OCT-91

SURVEY BY
MR. C. LAKE

OFFICE
RM/410 CASPER, WY.

MERIDIAN OIL INC.
HUERFANO UNIT NO.300
slot #1
SAN JUAN BASIN
SAN JUAN COUNTY, NEW MEXICO

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

Your ref : EMS
Our ref : svy203
Other ref :

Date printed : 30-Oct-91
Date created : 30-Oct-91
Last revised : 30-Oct-91

Field is centred on n36 45 0.000,w107 40 0
Structure is centred on n36 26 0.000,w107 55 0

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	
241.00	0.00	0.00	241.00	0.00 N	0.00 E	0.00	0.00	EMS	
340.00	0.46	167.07	340.00	0.39 S	0.09 E	0.46	-0.14	Surveyor: Mr. C. Lake	
433.00	0.46	254.67	433.00	0.85 S	0.19 W	0.68	0.07	Date Run: Oct. 02,1991	
527.00	0.94	32.49	526.99	0.30 S	0.14 W	1.40	0.10		
620.00	0.78	155.68	619.99	0.23 S	0.53 E	1.63	-0.56		
713.00	0.82	188.54	712.98	1.47 S	0.70 E	0.49	-0.89		
806.00	0.21	268.09	805.98	2.13 S	0.42 E	0.87	-0.71		
899.00	0.88	137.97	898.97	2.67 S	0.73 E	1.10	-1.09		
992.00	0.38	1.46	991.97	2.89 S	1.22 E	1.27	-1.60		
1086.00	0.84	42.80	1085.96	2.07 S	1.70 E	0.65	-1.96		
1179.00	0.75	142.33	1178.96	2.05 S	2.53 E	1.31	-2.79		
1272.00	0.59	81.94	1271.95	2.47 S	3.38 E	0.74	-3.68		
1365.00	0.82	305.43	1364.95	2.02 S	3.31 E	1.41	-3.55		
1458.00	0.75	274.68	1457.94	1.58 S	2.16 E	0.45	-2.35		
1551.00	0.64	260.92	1550.94	1.61 S	1.04 E	0.21	-1.25		
1645.00	0.73	355.18	1644.93	1.10 S	0.47 E	1.07	-0.62		
1738.00	0.44	28.56	1737.93	0.19 S	0.59 E	0.47	-0.61		
1831.00	0.22	152.38	1830.92	0.04 S	0.85 E	0.64	-0.84		
1924.00	0.61	223.35	1923.92	0.56 S	0.59 E	0.62	-0.66		
2017.00	0.83	308.05	2016.92	0.50 S	0.28 W	1.06	0.21		
2110.00	0.71	200.77	2109.91	0.63 S	1.02 W	1.34	0.92		
2204.00	0.55	316.50	2203.91	0.84 S	1.53 W	1.14	1.40		
2297.00	0.24	68.94	2296.91	0.45 S	1.66 W	0.73	1.58		
2390.00	0.69	303.61	2389.91	0.07 S	1.94 W	0.92	1.92		
2483.00	0.79	286.00	2482.90	0.42 N	3.02 W	0.26	3.05		
2576.00	0.29	334.40	2575.89	0.81 N	3.74 W	0.68	3.82		
2669.00	0.92	264.04	2668.89	0.94 N	4.59 W	0.93	4.67		
2762.00	0.96	250.68	2761.88	0.60 N	6.06 W	0.24	6.09		
2856.00	0.91	250.34	2855.86	0.09 N	7.51 W	0.05	7.46		
2949.00	1.03	179.91	2948.85	0.99 S	8.21 W	1.21	8.00		
3042.00	0.08	2.05	3041.85	1.76 S	8.20 W	1.19	7.89		
3135.00	1.22	208.98	3134.84	2.56 S	8.68 W	1.39	8.25		
3228.00	0.17	157.33	3227.84	3.56 S	9.11 W	1.21	8.54		
3321.00	0.65	307.77	3320.83	3.36 S	9.47 W	0.86	8.93		
3415.00	0.53	161.94	3414.83	3.45 S	9.76 W	1.20	9.20		
3508.00	0.10	206.86	3507.83	3.93 S	9.66 W	0.50	9.04		
3601.00	1.12	188.23	3600.82	4.90 S	9.83 W	1.10	9.07		
3694.00	1.05	166.80	3693.81	6.63 S	9.76 W	0.44	8.77		
3787.00	0.95	150.66	3786.79	8.13 S	9.19 W	0.32	8.00		
3880.00	0.41	24.28	3879.79	8.50 S	8.68 W	1.33	7.44		
3974.00	0.42	54.30	3973.79	7.99 S	8.26 W	0.23	7.10		
4067.00	0.91	110.99	4066.78	8.06 S	7.29 W	0.82	6.13		
4160.00	1.04	171.21	4159.77	9.16 S	6.47 W	1.06	5.17		
4253.00	0.64	153.20	4252.76	10.45 S	6.11 W	0.51	4.64		
4346.00	0.40	135.65	4345.76	11.15 S	5.65 W	0.31	4.08		
4439.00	0.91	163.06	4438.75	12.09 S	5.21 W	0.63	3.52		
4533.00	0.42	155.20	4532.74	13.12 S	4.84 W	0.53	3.02		
4626.00	0.99	193.58	4625.74	14.21 S	4.89 W	0.76	2.92		
4718.00	0.11	119.38	4717.73	15.02 S	5.00 W	1.05	2.92	Final Closure	
4812.00	0.43	298.12	4811.73	14.90 S	5.23 W	0.57	3.16	S 19.34 W, 15.79'	

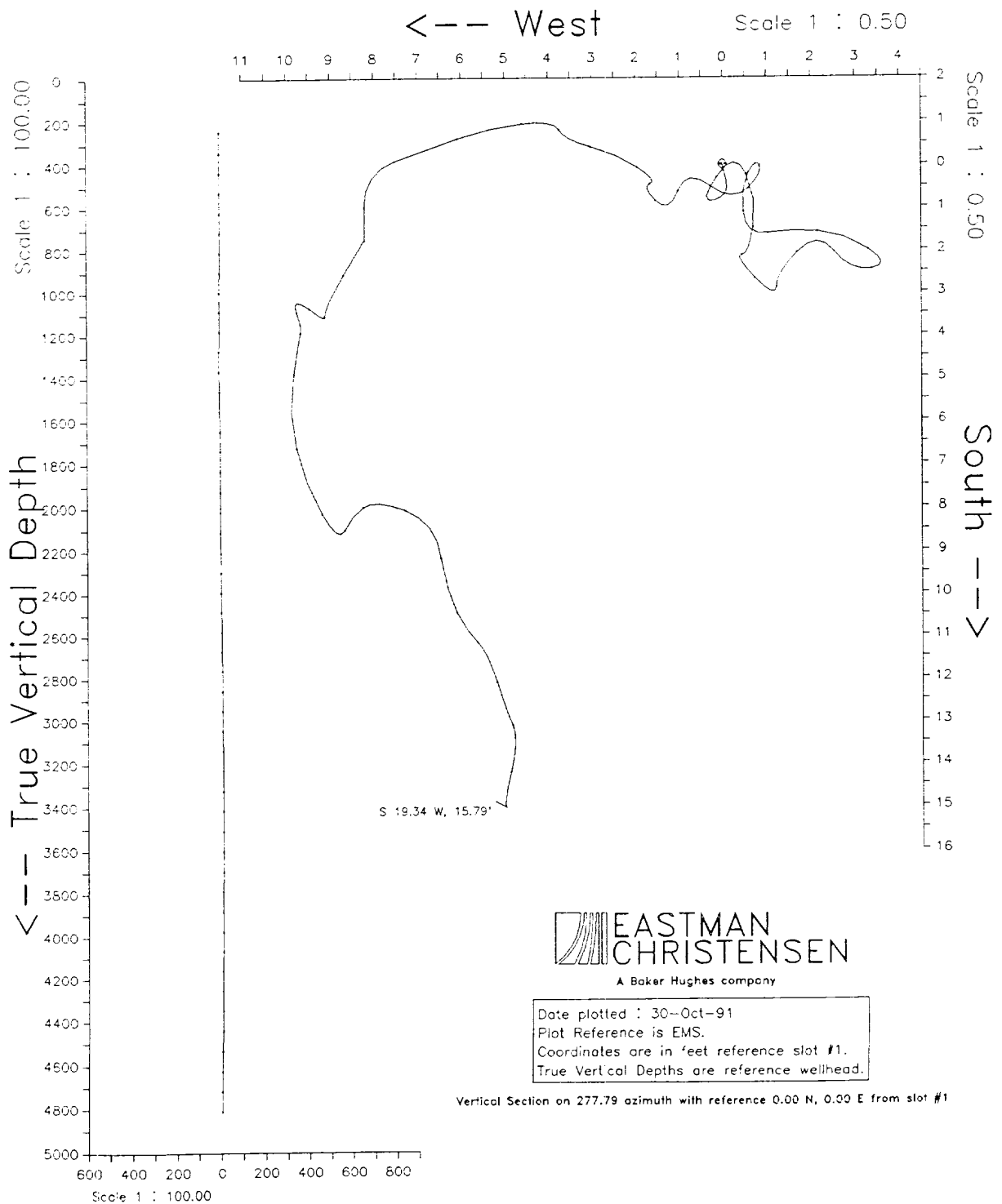
All data is in feet unless otherwise stated
 Coordinates are from slot #1 and TVDs are from wellhead.
 Vertical section is from wellhead on azimuth 277.79 degrees.
 Calculation uses the minimum curvature method.

MERIDIAN OIL INC.

Structure : HUERFANO UNIT NO.300

Field : SAN JUAN BASIN

Location : SAN JUAN COUNTY, NEW MEXICO



SURVEY CERTIFICATION SHEET

Company Meridian Oil Inc. Job # 413-618 Date 31-Oct-91
Lease Huerfano Unit Well # 300 State New Mexico
Surveyed from a depth of 241 feet to a depth of 4812 feet.
Type of Survey Electronic Multi shot Survey
Directional Supervisor/Surveyor Mr. James C. Lake

The data for this survey and the calculations for this survey were obtained and performed by me according to the standards and procedures as set forth by Eastman Christensen Company and are true and correct to the best of my knowledge.

James C. Lake
Directional Supervisor/Surveyor

The data and calculations for this survey have been checked by me and conform to the standards and procedures as set forth by Eastman Christensen Company. This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site:

Checked by:

James T. Winkler

Subscribed and sworn to before me this 27th day of November, 1991.

James R. Thompson
Notary Public in and for San Juan County, New Mexico
My commission expires August 17, 1992.

Original Copy - District Office File

One copy to Houston Office

FORM D-1121