

COUNTY LEA Vacuum
 OPR MOBIL PRODUCING TX & NM
 NO 284 LEASE North Vacuum (Abo) Unit
 Sec 14, T17S, R34E
 1950 FNL, 2080 FEL of Sec
 14 mi SE/Maljamar

CSC	WELL CLASSIFICATION			
	FORMATION	DATUM	PERF	DATUM
13 3/8-400-500 sx				
8 5/8-5000-2850 sx				
5 1/2-1nr-4217-8799-1150 sx				
2 3/8-8666				
2 7/8-8665				

IP (Abo) Perfs 8526-8624 P 113 WTD 10 BW
 24 hr test. GOR 885; gty 37.5

CONTR Moranco #9 OPR 1004 LE 404

7-9-85 F.P. 3-n-85
 7-10-85 PD 8900 42 (Abo)
 7-11-85 Drlg 1695
 7-16-85 Drlg 2427 entg
 7-17-85 Drlg 3105 1n
 7-23-85 Drlg 4510
 7-24-85 Drlg 4747
 7-31-85 Drlg 6970
 TD 8587; Prep Core
 Crd (Abo) 8510-46
 no OIL shw or slt
 w/vfn interxlyn pore sat amt
 anby + 1 FT vfn
 interxlyn pore sat amt
 dolo ms dk grt

Doc ID: A60789
Date Entered: 01-11-2007 (Auto) Ut
Set Date: 01/11/2007

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

MOBIL PRODUCING OF TEXAS AND NEW MEXICO
COMPANY

NORTH VACUUM ABO UNIT WELL NO. 284
WELL NAME

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER
WT0785-C0370

TYPE OF SURVEY
CORE ORIENTATION

DATE
28/JUL/85

SURVEY BY
TROY ONEY

OFFICE
WEST TEXAS

COMPANY MOBIL PRODUCING OF TEXAS & N. MEXICO
 LEASE NORTH VACUUM ABO UNIT WELL NO. 284
 FIELD LEA COUNTY, NEW MEXICO
 JOB NO. WT0785-C0370 DATE 28-JULY-85
 OPERATOR TROY ONEY
 ASSISTANT NONE
 RIG/PLATFORM MORANCO RIG 9
 FORMATION NAME _____
 FORMATION DESC. _____
 INTERVAL CORDED: _____
 START 8515
 FINISH 8518
 TIMER INTERVAL: 4 MIN CYCLE _____ MIN.



Eastman Whipstock
2101 1st Ave. • Denver, CO 80202

CORE NUMBER 1

DECLINATION 10° EAST/WEST
AZIMUTH CORRECTION FOR DECLINATION
EAST DECL. ☒ ADD TO AZIMUTH
WEST DECL. ☐ SUB. FROM AZIMUTH

REFERENCE GROOVE CORRECTION:

FROM ABOVE, GROOVE IS 0 DEG. R/L
OF ORIENTATION LUG.
☐ RIGHT, ADD TO LUG AZIMUTH
☐ LEFT, SUB. FROM LUG AZIMUTH

[illegible]

CORE ORIENTATION

COMPANY MOBIL PRODUCING OF TEXAS & N. MEXICO
 LEASE NORTH VACUUM ABO UNIT WELL NO. 284
 FIELD LEA COUNTY, NEW MEXICO
 JOB NO. WT0785-C0370 DATE 28-JULY-85
 OPERATOR TROY ONEY
 ASSISTANT NONE
 RIG/PLATFORM MORANCO RIG 9
 FORMATION NAME
 FORMATION DESCRIP.
 INTERVAL CORED
 START 8518
 FINISH 8544
 TIMER INTERVAL: 4 MIN CYCLE MIN.



CORE NUMBER 2

DECLINATION 10° EAST/WEST
 AZIMUTH CORRECTION FOR DECLINATION
 EAST DECL. ☒ ADD TO AZIMUTH
 WEST DECL. ☐ SUB. FROM AZIMUTH
 REFERENCE GROOVE CORRECTION:
 FROM ABOVE, GROOVE IS 0 DEG. R/L
 OF ORIENTATION LUG.
☐ RIGHT, ADD TO LUG AZIMUTH
☐ LEFT, SUB. FROM LUG AZIMUTH

STATION				DRIFT			ORIENTATION				
No.	Time	Picture No.	Depth	Angle	Magnetic	Direction	True	Orienting Lug, Magnetic	Declin. Corr.	Or. Lug Az. True	Reference Groove
1	16:05	44	8518	.75	S58E		S48E	S65E	10	125	0 125 S55E
2	16:45	54	8520	1.00	S51E		S41E	N86W	10	284	0 284 N76W
3	17:34	66	8522	1.00	S48E		S38E	S15E	10	175	0 175 S05E
4	18:17	77	8524	1.00	S33E		S23E	N83W	10	287	0 287 N74W
5	19:13	91	8526	1.00	S35E		S25E	N43E	10	053	0 053 N53E
6	20:11	105	8528	PLUM	BOB NOT READABLE			S33E	10	157	0 157 S23E
7	20:57	117	8530	PLUM	BOB NOT READABLE			N89E	10	099	0 099 S81E
8	21:50	130	8532	1.00	S35E		S25E	S64W	10	254	0 254 S74W
9	22:24	141	8534	PICTURE	NOT READABLE DUE TO BATTERY PACK FAILURE						
10	23:20	152	8536								
11	00:14	164	8538								
12	00:54	176	8540								
13	01:45	183	8542								
14	02:39	202	8544								
1	2	3	4	5	6	7	8	9	10	11	12 13 14



(915) 563-0511

P.O. Box 6341/Terminal Station/Midland, TX 79711-0341

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, TROY ONEY, in the employ of Eastman Whipstock, Inc., did on the days of JULY 28, 19 85 thru JULY 28, 19 85 conduct or supervise the taking of a CORE ORIENTATION survey by the method of magnetic orientation from a depth of 8515 feet to 8544 feet, with recordings of inclination and direction being obtained at approximate intervals of 2 feet.

This survey was conducted at the request of MOBIL PRODUCING OF TEXAS & N. MEXICO for their NORTH VACUUM ABO U. 284, LEA County, State of NEW MEXICO, in the _____ field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

Troy Oney
Directional Supervisor, Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

Before me, the undersigned authority, on this day personally appeared TROY ONEY, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 29 day of July, 19 85

Timothy F. Stephens
Notary Public in and for the
County of Midland, Texas
My commission expires _____



Timothy F. Stephens
Notary Public, State of Texas
My Commission Expires 4-1-89