

	WT1183-G0131 (0^-1560^) WT1183-S0152 (1560^-4430^)	OCAL DEG. 20 MIN. H	RECORD OF SURVEY	DF CURVATURE METHOD		
SHELL DIL COMPANY NORTH HOBBS UNIT WELL NO. 33-432 LEA COUNTY, NEW MEXICO BD1-125 NOVEMBER 10, 1983	EASTMAN WHIPSTOCK, INC. GYROSCOPIC MULTI SHOT SURVEY WT SURVEYOR: TROY ONEY MAGNETIC MULTI SHOT SURVEY (1 SURVEYOR: TROY ONEY (1)	VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL DIRECTION: \$ 30 DEG	RECC	RADIUS OF		

PAGE NO.	C DOGLEG SEVERITY DG/100F1	,	00	0.30 0.32 0.32 0.32 0.33	° ° °	0.00	0.52 0.49 0.49 0.49	0.82 19219 1.22	0.83 0.90 1.28 0.81
COMFUTATION ME DATE 4:21 28-NOV-83	с с С с С Т А Т С А С	0.00 0.41 k 1.21 k		N N N N 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	111	4.12 K 4.12 K 4.35 K	50. 16 17 17 12 12 12 12 12 12 12 12 12 12 12 12 12	12.93 H 14.76 H 17.91 N 21.73 H 25.94 H	30.47 W 32.81 W 37.65 W 42.83 W 48.39 W
• COMP TIME 13:34:21	RECTAN COORDI FEET	0.00 0.16 S 0.50 S	1.06 S 1.81 S	2.44 3.30 4.81 6.45 81 80 8	51 16 74	8.83 8.83 9.20 50 8	10.23 S 11.08 S 12.25 S 12.99 S 13.58 S	14.01 S 14.88 S 17.72 S 22.27 S 27.38 S	33.08 S 36.13 S 42.79 S 50.18 S 58.13 S
•	VERTICAL SECTION FEET	0.00 0.34		9. 94 9. 94 9. 94 9. 99 9. 99	8.02 8.61 9.41	9.70 9.70 10.14	11.43 12.67 14.67 16.12 17.46	18.62 20.30 24.34 30.20 36.73	43.94 47.76 55.94 64.94 74.61
	TRUE VERTICAL DEPTH FEET	0.00 100.00 199.99	299, 99 399, 99	4 99.99 599.98 699.97 7 9 9.95		1199.94 1299.94 1399.94	1499.93 1559.92 1640.88 1702.86 1764.83	1826.81 1888.78 1951.63 2013.34 2074.99	2136.56 2167.32 2228.77 2290.11 2351.34
	COURSE LENGTH FEET	100.	100.	100. 100.	100. 100.	100. 100.	100. 60. 62.	62. 62. 62.	62. 62. 62.
NO. 33-432 D BD1-125	DRIFT DIRECTION D	6 6 0 6 0	33 33 33 33 33 33 33 33 33 33 33 33 33	и 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	o o o o ≁►	Е 35 0 0	იიიიი 4 ლიიიი 4 ლიიიი 4 ლიიიი 7 4 ლიიი 7 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	000000 500000 000000 00000000000000000	ស ស ស ស ស ល ល ល ល ល ល ល 3 ល ល ល ល 3 ល ល ល ល 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
COMPANY IS UNIT WELL NO. , NEW MEXICO	DRIFT ANGLE D M	0 0 0 0 0 0		0 1 1 0 0 0 0 0 0 0	⊷ ღღ	000 000	1 1 1 4 1 4 0 0 1 4 0 0 1 1 1 0 0 1 1 1 0 0 0 1 1 1 1	 4 10 4 10 4 10 9 4 10 9 0 10 	7 0 7 15 8 0 8 45 9 15
SHELL OIL CO NORTH HOBBS LEA COUNTY,	MEASURED DEPTH FEET	-0. 100. 200.	300. 400.	500. 600. 800.	900. 1000. 1100.	1200. 1300. 1400.	1500. 1560. 1641. 1703.	1827. 1889. 1952. 2014. 2076.	2138. 2169. 2231. 2355.

SHELL OIL CO North Hobbs Lea County,	COMPANY IS UNIT WELL I • NEW MEXICO	ND. 33-432) BD1-125				CCMPI TIME 13:34:21	COMPUTATION ME DATE 4:21 28-NOV-83	PAGE NO.
MEASURED DEPTH FEET	DRIFT Angle D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	RECTAR COORDI FEE	G U L A R N A T E S S	DOGLEG SEVERITY DG/100FT
2418. 2480		S 34 H	63.	2413.46	85.11	66.81 S	54.36 W	1.22
2542.	11 30	1 A	62. 62.	2535.28	78.20 108.20			10
2605.		ŝ	63.	2596.96	120.99) - 10 - 10	0 1 0	0.86
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2791.	4	00 (M		2777.90		41	17	
2854.		с С	63.	2838.68	сų.	00 00	10.08	•
2916.	16 30	S 40 W	62.	2898.24	197.21	157.67 S	121.04 W	1.29
2978.	~	40	-0	2957.57	14.9	71.45	32.60	
3040.		is i Ç	C7		08 CCC	0		
3102.) N	3075.54	252.45			•
3164.	19 15	3 68 S		3134.20	272.45	216.40 S	169.65 W	
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3413.		e ez	10		358, 15	. () [ւն	
3475.	20 0	0. M	I N	0	379.29	4		
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3662.	α	4	62.		8. 10	10 17 00	20 57 10	
3724.	17 0	S 32 W	62.	3661.52	m	363.73 S	286.80 W	5.27
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3848.	-13 45	S 34 W	.62.			1.35	4.33	
3910.	N	9 4	62.		ഗ്	3. 03	2.25	
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4035.	10 15	З З С	62.	3964.09	529.74	96	80	1.21
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<u>N</u>	4	90 90	62.	4147.49	560.60	g	84	

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PAGE NO.	DOGLEG SEVERITY DG/100FT	1.38 0.46 0.91	
COMPUTATION ME DATE 4:21 28-NOV-83	C T A N G U L A R O R D I N A T E S FEET	349.29 W 354.47 W 359.45 W 361.18 W	
COMPU TIME 13:34:21	RECTAN COORDI FEE	455. 70 S 462. 44 S 468. 82 S 470. 92 S	
:	VERTICAL SECTION FEET	56 9.72 578.15 586.17 588.86	
	TRUE VERTICAL DEPTH FEET	4209.82 4271.23 4332.70 4 354.53	MINS W
	COURSE LENGTH FEET	63. 62. 22.	S 37 DEGS 29 M 593.48 FEET
VD. 33-432 BD1-125	DRIFT DIRECTION D	6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	
COMPANY S UNIT WELL N NEW MEXICO	DRIFT ANGLE D M	8 7 45 7 15 0	FINAL CLOSURE - DIRECTION: DISTANCE:
SHELL OIL COMPANY NORTH HOBBS UNIT WELL NO. 33-432 LEA COUNTY, NEW MEXICO BD1-125	MEASURED DEPTH FEET	4284 4346 4408 4430	FINAL CL

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P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Troy Oney</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>11-9</u>, <u>19 83</u> thru <u>11-10</u>, <u>19 83</u> conduct or supervise the taking of a <u>Gyroscopic Multi Shot</u> survey by the method of magnetic orientation from a depth of <u>0</u> feet to <u>1560</u> feet, with recordings of inclination and direction being obtained at approximate intervals of <u>100</u> feet.

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.

1 Supervisor Surveyor Directional

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

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Before me, the undersigned authority, on this day personally appeared <u>Troy Oney</u>, 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.

DIA Subscribed and sworn to before me on this day of NOD ,19 K_{1}

Notary Public in and for the County of Midland, Texas My commission expires





P. O. Box 5577/Midland, Texas 79704/(915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS COUNTY OF MIDLAND

I, <u>Troy Oney</u>, in the employ of Eastman Whipstock, Inc., did on the days of <u>11-21</u>, 19 83 thru <u>11-22</u>, 19 83 conduct or supervise the taking of a <u>Magnetic Mult1 Shot</u> survey by the method of magnetic orientation from a depth of <u>1560</u> feet to <u>4430</u> feet, with recordings of inclination and direction being obtained at approximate intervals of <u>62</u> feet.

This survey was conducted at the request of Shell Oil Companyfor their North Hobbs Unit Well No. 33-432LeaCounty,State of New Mexico, in thefield.

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 $\overline{o} F_{n}$ my knowledge.

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.

Tim Stephen

Before me, the undersigned authority, on this day personally appeared <u>Troy Oney</u>, 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 day of N'UU, 1983Notary Public in and for the County of Midland, Texas, My commission expires anaz

Directional Drillers/Sub-Surface Surveyors/Instrument & Tool Rentals/Sales/Worldwide

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Etteorive 1-5-65

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		All distances must be fr	om the outer box scharize a	of the Section	
SHEL	L OIL CO.		NORTH HO	BBS UNIT	33-432
i etter I	33	18 SOUTH	38 EAST	LEA	,
1842	scation of Well; feet from the	SOUTH line and	1029	EAST	
3629.9		URG/SAN ANDRES	HOBBS (GRAYB	URG/SAN_ANDRES)	Селипански Алектарер Короло
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		different ownership is d unitization, force-poolir		, have the interests of	all owners been consul-
X Yes	🛄 No – If	answer is "yes?" type of	consolidation	UNITIZATION	L
		e owners and tract descr	iptions which have	actually been consolida	ted it se reverse side of
No allow	-	ned to the well until all			
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[ł		; ;		CERTIFICATION
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South 4	70.92 West	361.18'	ł	SUPERVIS	OR REG. & PERMITTIN
Final C	losure: 593.	48'@s 37° 29'W	1 1 1		L COMPANY
			<u> </u>		
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			`Q	know ledge	and belief
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				(er før stol og af logs planner a
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