

WRS COMPLETION REPORT

COMPLETIONS SEC 28 TWP 18S RGE 38E
PI# 30-1-0031 02/14/86 30-025-29276-0000 PAGE 1

NMEX LEA * 1166FSL 1823FWL SEC
STATE COUNTY FOOTAGE SPOT
SHELL WESTERN EXPL&PROD D DO
OPERATOR NORTH HOBBS (GBSA) UNIT SEC 28
242 WELL NO LEASE NAME
3657KB 3644GR HOBBS
OPER ELEV FIELD POOL AREA
API 30-025-29276-0000

LEASE TYPE/NO. PERMIT OR WELL I.D. NO.
06/23/1985 09/02/1985 ROTARY OIL
SPUD DATE COMP. DATE TYPE TOOL STATUS
4370 GRBG-SAD GRACE-TRG DRLG 404 RIG SUB 12
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 4475 PB 4470 FM/TD SN ANDRS
DRILLERS T.D. LOG T.D. PLUG BACK TO OLD T.D. FORM T.D.

LOCATION DESCRIPTION

HOBBS TOWNSITE, NM

CASING/LINER DATA

CSG 13 3/8 @ 40	01
CSG 9 5/8 @ 1509 W/ 650 SACKS	02
CSG 7 @ 4470 W/ 1005 SACKS	03

TUBING DATA

TBG 2 7/8 AT 4161

INITIAL POTENTIAL

IPP 134BOPD 127.0MCFD 456BW
SN ANDRS PERF W/ 28/IT 4200- 4347 GROSS 004
PERF 4200, 4220, 4225, 4255, 4263, 4268, 4277, 4295
PERF 4303, 4312, 4323, 4331, 4337, 4347
ACID 4200- 4347 4200GALS
15% NE
GTY 35.0 GOR 948

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	SALT		1685	1972
LOG	YATES		2688	969
LOG	SVN RVRS		2918	739
LOG	QUEEN		3472	185
LOG	GRAYBURG		3810	-153

CONTINUED IC# 300257026385

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Petroleum Information
CORPORATION

P.O. BOX 505
Form No. 10

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SHELL WESTERN EXPL&PROD
242 NORTH HOBBS (GBSA) UNIT SEC 28 D DO

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	SN ANDRS		4107 -450	

LOGS AND SURVEYS /INTERVAL,TYPE/

LOGS	SONL	RFT	BHCS
LOGS	GR	DLL	MSFL
LOGS	LASR	CBL	VD
LOGS	CCL		

PROPOSED TVD AND BOTTOM HOLE LOCATION

BHL LOC MEASURED 1100 FSL 2400 FWL SEC 1100N 2400E

DRILLING PROGRESS DETAILS

SHELL WESTERN EXPL&PROD
BOX 991
HOUSTON, TX 77001
713-870-3794
03/20 LOC/1985/
06/25 DRLG 500
06/26 1510 TD, RNG CSG
06/28 DRLG 1738
07/01 DRLG 3005
07/02 DRLG 3135
07/05 DRLG 3745
07/08 DRLG 4475
07/15 4475 TD, WOCT
08/29 4475 TD, PB 4470, PREP TEST
09/02 4475 TD, PB 4470, TOP
02/11 TD REACHED 07/07/85 RIG REL 07/08/85
4475 TD, PB 4470
COMP 9/2/85, IPP 134 BO, 127 MCFGPD, 456
BWP, GTY 35, GOR 948
PROD ZONE - SAN ANDRES 4200-4347
NO CORES OR DSTS RPTD



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

SHELL WESTERN EXPLORATION AND PRODUCTION INC.
COMPANY

NORTH HOBBS UNIT 28-242
WELL NAME

28-18-32

LEA COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

WT0685-G0323
WT0785-S0343

TYPE OF SURVEY

GYROSCOPIC MULTI SHOT SURVEY
MAGNETIC MULTI SHOT SURVEY

DATE

26-JUN-85
8-JUL-85

SURVEY BY
STEVE COVINGTON
GARY DeSPAIN

OFFICE
WEST TEXAS

SHELL WESTERN EXPLORATION & PRODUCTION INC.
NORTH HOBBS UNIT 28-242
LEA COUNTY, NEW MEXICO BD2-229

EASTMAN WHIPSTOCK INC.
GYROSCOPIC MULTI-SHOT SURVEY WT0685-G0323
SURVEYOR: STEVE COVINGTON (0'-1425')
MAGNETIC MULTI-SHOT SURVEY WT0785-S0343
SURVEYOR: GARY DESPAIN (1425'-4475')

VERTICAL SECTION CALCULATED IN PLANE OF PROPOSAL
DIRECTION: S 83 DEG 28 MIN. E

RECORD OF SURVEY

RADIUS OF CURVATURE METHOD

TIME DATE
07:59:45 08-JUL-85

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	DOGLEG SEVERITY DG/100FT
0.	0 0	0	0.	0.00	0.00	0.00	0.00
100.	0 30	N 54 W	100.	100.00	-0.38	0.26 N	0.50
200.	0 45	N 43 W	100.	199.99	-1.27	0.98 N	0.28
300.	0 30	N 67 W	100.	299.99	-2.22	1.60 N	0.36
400.	0 15	N 56 W	100.	399.98	-2.83	1.91 N	0.26
500.	0 15	S 74 W	100.	499.98	-3.25	1.98 N	0.21
600.	0 15	S 18 W	100.	599.98	-3.52	1.69 N	0.23
700.	0 30	S 37 E	100.	699.98	-3.34	1.06 N	0.41
800.	0 30	S 8 W	100.	799.98	-3.04	0.24 N	0.38
900.	0 30	S 38 E	100.	899.97	-2.73	0.58 S	0.39
1000.	0 45	S 28 E	100.	999.97	-2.03	1.49 S	0.27
1100.	0 45	S 2 W	100.	1099.96	-1.60	2.75 S	0.39
1200.	0 45	S 19 E	100.	1199.95	-1.26	4.04 S	0.27
1300.	1 0	S 12 E	100.	1299.94	-0.69	5.51 S	0.27
1400.	1 15	S 12 E	100.	1399.92	-0.07	7.43 S	0.25
1425.	1 15	S 15 E	25.	1424.91	0.12	7.96 S	0.26
1525.	1 15	S 21 E	100.	1524.89	1.02	10.04 S	0.13
1571.	1 15	S 13 E	46.	1570.88	1.42	11.00 S	0.38
1633.	1 0	S 12 E	62.	1632.87	1.82	12.13 S	0.40
1695.	1 0	S 5 W	62.	1694.86	2.01	13.26 S	0.48
1758.	1 0	S 4 W	63.	1757.85	2.05	14.36 S	0.03
1820.	1 0	S 22 W	62.	1819.84	1.93	15.41 S	0.50
1882.	1 45	S 35 W	62.	1881.82	1.37	16.71 S	1.30
1944.	2 0	S 12 W	62.	1943.79	0.78	18.56 S	1.27
2006.	5 0	S 71 E	62.	2005.66	2.82	21.57 S	8.31
2069.	7 15	N 86 E	63.	2068.30	9.50	22.45 S	6.99
2131.	8 15	N 77 E	62.	2129.73	17.56	21.21 S	15.25
2193.	9 45	N 79 E	62.	2190.97	26.76	19.19 S	24.73
2255.	11 30	N 77 E	62.	2251.90	37.59	16.82 S	35.91
2318.	13 0	N 74 E	63.	2313.47	50.07	13.47 S	48.85
							2.59

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE		VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S		DOGLEG SEVERITY DG/100FT
				VERTICAL DEPTH FEET			FEET		
2380.	15 0	N 73 E	62.	2373.62		63.87	9.21 S	63.23 E	3.25
2442.	16 0	N 73 E	62.	2433.37		79.06	4.37 S	79.08 E	1.61
2504.	17 0	N 72 E	62.	2492.81		95.14	0.93 N	95.87 E	1.68
2566.	18 0	N 72 E	62.	2551.94		112.10	6.69 N	113.60 E	1.61
2629.	18 0	N 73 E	63.	2611.86		129.88	12.54 N	132.17 E	0.49
2691.	18 0	N 72 E	62.	2670.82		147.38	18.30 N	150.44 E	0.50
2753.	18 0	N 74 E	62.	2729.79		164.95	23.91 N	168.76 E	1.00
2815.	18 0	N 74 E	62.	2788.75		182.64	29.19 N	187.18 E	0.00
2878.	18 0	N 74 E	63.	2848.67		200.63	34.55 N	205.89 E	0.00
2940.	18 15	N 74 E	62.	2907.59		218.44	39.87 N	224.43 E	0.40
3002.	19 0	N 77 E	62.	2966.55		236.92	44.83 N	243.60 E	1.96
3064.	19 30	S 88 E	62.	3024.88		256.85	46.78 N	263.89 E	8.00
3126.	20 0	S 76 E	62.	3083.23		277.76	43.87 N	284.60 E	6.58
3189.	21 15	S 74 E	63.	3142.19		299.71	38.13 N	306.03 E	2.28
3251.	22 0	S 75 E	62.	3199.83		322.28	32.02 N	328.05 E	1.35
3313.	22 0	S 74 E	62.	3257.31		345.22	25.81 N	350.43 E	0.60
3375.	22 0	S 73 E	62.	3314.80		368.09	19.22 N	372.70 E	0.60
3437.	21 45	S 74 E	62.	3372.34		390.84	12.66 N	394.85 E	0.72
3500.	20 30	S 75 E	63.	3431.10		413.27	6.59 N	416.73 E	2.06
3562.	19 45	S 76 E	62.	3489.32		434.40	1.25 N	437.38 E	1.33
3624.	18 30	S 75 E	62.	3547.89		454.51	3.84 S	457.04 E	2.08
3686.	18 0	S 73 E	62.	3606.77		473.66	9.19 S	475.71 E	1.29
3749.	17 15	S 75 E	63.	3666.82		492.48	14.45 S	494.04 E	1.53
3811.	17 0	S 73 E	62.	3726.07		510.48	19.48 S	511.59 E	1.03
3873.	16 45	S 73 E	62.	3785.40		528.18	24.74 S	528.80 E	0.40
3935.	14 45	S 72 E	62.	3845.07		544.70	29.80 S	544.85 E	3.26
3997.	13 0	S 68 E	62.	3905.25		559.16	34.89 S	558.82 E	3.22
4060.	11 15	S 72 E	63.	3966.85		572.03	39.41 S	571.25 E	3.08
4122.	10 0	S 71 E	62.	4027.78		583.21	43.04 S	582.09 E	2.04
4184.	9 30	S 68 E	62.	4088.89		593.40	46.71 S	591.92 E	1.15

MEASURED DEPTH FEET	DRIFT ANGLE D M	DRIFT DIRECTION D	COURSE LENGTH FEET	TRUE VERTICAL DEPTH FEET	VERTICAL SECTION FEET	R E C T A N G U L A R C O O R D I N A T E S FEET	D G L E G S E V E R I T Y DG/100FT
4246.	8 45	S 68 E	62.	4150.10	602.87	50.40 S 601.04 E	1.21
4309.	8 15	S 68 E	63.	4212.41	611.85	53.89 S 609.67 E	0.79
4371.	7 45	S 67 E	62.	4273.81	620.14	57.19 S 617.65 E	0.84
4433.	7 0	S 65 E	62.	4335.29	627.73	60.42 S 624.92 E	1.28
4458.	7 0	S 63 E	25.	4360.11	630.61	61.76 S 627.66 E	0.97

4475 FT. IS A PROJECTION BASED UPON THE PREVIOUS STATION.

4475.	7 0	S 63 E	17.	4376.98	632.55	62.70 S 629.50 E	0.00
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FINAL CLOSURE - DIRECTION:
 DISTANCE:

S 8 DEGS 19' MINS E
 632.62 FEET

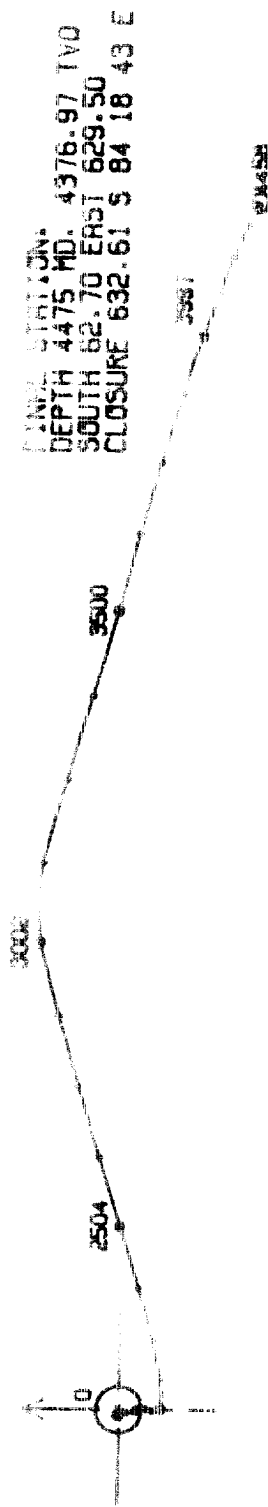


SHELL WESTERN EXPLORATION AND PRODUCTION
NORTH HOBBS UNIT 28-242
LEA COUNTY, NEW MEXICO

B02-229

EASTMAN WHIPSTOCK, INC.

HORIZONTAL PROJECTION
SCALE 1 IN. = 100 FEET
DEPTH INDICATOR: MD





(915) 563-0511

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

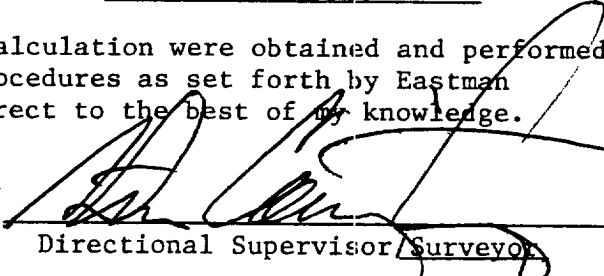
SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

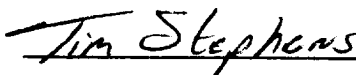
I, STEVE COVINGTON, in the employ of Eastman Whipstock, Inc., did on the days of JUNE 26, 1985 thru JUNE 26, 1985 conduct or supervise the taking of a GYROSCOPIC MULTI SHOT survey by the method of magnetic orientation from a depth of 0' feet to 1425' feet, with recordings of inclination and direction being obtained at approximate intervals of 100' feet.

This survey was conducted at the request of SHELL WESTERN EXP. & PROD. CO. for their HOBBS UNIT 28-242, 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.

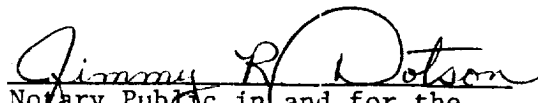

Directional Supervisor/Surveyor

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



Before me, the undersigned authority, on this day personally appeared STEVE COVINGTON, 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 information is a true statement of facts therein recited.

Subscribed and sworn to before me on this 8th day of July, 1985.


Notary Public in and for the
County of Midland, Texas



Jimmy R. Dotson

Notary Public, State of Texas

My Commission Expires 3-22-89



(915) 563-0511

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

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Gary DeSpain, in the employ of Eastman Whipstock, Inc., did on the days of July 7, 19 85 thru July 8, 19 85 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 1425 feet to 4458 feet, with recordings of inclination and direction being obtained at approximate intervals of 62 feet.

This survey was conducted at the request of Shell Western Expl. & Prod. for their North Hobbs Unit 28-242, 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.

Gary DeSpain
Directional Supervisor/Surveyor

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

Tim Stephens

Before me, the undersigned authority, on this day personally appeared Gary DeSpain, 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 information is a true statement of facts therein recited.

Subscribed and sworn to before me on this 8th day of July, 19 85.

Jimmy R. Dotson
Notary Public in and for the
County of Midland, Texas



Jimmy R. Dotson
Notary Public, State of Texas
My Commission Expires 3-18-89