

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. District 2
Grand Avenue
Artesia, NM 88210FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM-0144698					
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
2. NAME OF OPERATOR Mewbourne Oil Company 14744		7. UNIT AGREEMENT NAME					
3. ADDRESS AND TELEPHONE NO. PO Box 5270, Hobbs, N.M. 88241. (505) 393-5905		8. FARM OR LEASE NAME, WELL NO. Gatuna 5 Federal #2					
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 1980' FNL & 1650' FWL At top prod. interval reported below 1954' FNL & 1428' FWL At total depth 1946' FNL & 1415' FWL		9. API WELL NO. 30-015-32652 SI					
14. PERMIT NO.		DATE ISSUED JUL 2003 RECEIVED OCD - ARTESIA					
15. DATE SPUNDED 03/06/03		16. DATE T.D. REACHED 04/24/03					
17. DATE COMPL. (Ready to prod.) 05/17/03		18. ELEVATIONS (DF, RKB, RT, GE, ETC.)* 3294' GL					
19. ELEV. CASING HEAD 3294'		12. COUNTY OR PARISH Eddy					
13. STATE NM		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 5 T-20S R-29E					
20. TOTAL DEPTH, MD & TVD 11650'		21. PLUG, BACK T.D., MD & TVD 11556'					
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY X					
24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* 11216-11334'. Morrow		25. WAS DIRECTIONAL SURVEY MADE Yes					
26. TYPE ELECTRIC AND OTHER LOGS RUN PDK w/ GR & CCL. MAC/CNL		27. WAS WELL CORED No					
28. CASING RECORD (Report all strings set in well)							
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED		
20" / H-40	94	330'	26"	Surface. 400 sk filler & 200 sk 'C'	N/A		
13 3/8" / J-55	54.5	1225'	17 1/2"	Surface. 625 sk filler & 200 sk 'C'	N/A		
8 5/8" / J-55	32	3078'	12 1/4"	Surface. 1200 filler & 200 'C'. 875 sks on 1"	N/A		
5 1/2" / P110	17	11650'	7 7/8"	TOC @ 8850'. 550 sks 'H'.	N/A		
29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
ACCEPTED FOR RECORD				2 7/8" 10929' 10910'			
31. PERFORATION RECORD (Interval, size and number) 11216-11334'. 2spf. 108-.24" EHD				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 11216-11334' 1500 gals 7 1/2% HCL. Fraced w/ 68.5k gals 70Q Foam using 70k 20/40 Inter-Prop			
ALEXIS C. SWOBODA PETROLEUM ENGINEER							
33. * PRODUCTION							
DATE FIRST PRODUCTION 05/17/03		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 05/20/03	HOURS TESTED 24	CHOKE SIZE .48/64"	PROD'N FOR TEST PERIOD →	OIL—BBL. 3	GAS—MCF. 592	WATER—BBL. 6	GAS-OIL RATIO 197333
FLOW. TUBING PRESS. 600	CASING PRESSURE 50	CALCULATED 24-HOUR RATE →	OIL—BBL. 3	GAS—MCF. 592	WATER—BBL. 6	OIL GRAVITY-API (CORR.) 55	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY L. Pounds	
35. LIST OF ATTACHMENTS Deviation survey, E-Logs & C-104							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED [Signature]		TITLE N.M. Young District Manager				DATE 06/26/03	

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGICAL MARKERS			38. GEOLOGICAL MARKERS		
NAME	TOP		NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH		MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	3225'				
Bone Springs	5349'				
Wolfcamp	9110'				
Cisco Canyon	9874'				
Strawn	10,273'				
Atoka	10,675'				
Morrow	11,183'				
Barnett	11,503'				
TD	11,650'				

SCIENTIFIC DRILLING

Keeper Gyro

Directional Survey Report

for

Mewbourne Oil Company
Hobbs, New Mexico

Well Number	:	Gatuna "5" Fed Com#2
Well Location	:	Eddy County, New Mexico
Job Number	:	32K0403167
Location Latitude	:	32.605
Survey Date	:	9-APR-2003
S.D.I. Personnel	:	J. Cossey
Length Units	:	Feet
North Reference	:	True North
Grid Correction	:	0.00 Degrees
Survey Depth Zero	:	RKB
Proposal Direction	:	
Calculation Method	:	Minimum Curvature

Remarks : The Inrun Survey will be called definitive

S C I E N T I F I C D R I L L I N G

Inrun Survey
for

Page 1

Mewbourne Oil Company

Well No.: Gatuna"5"Fed Com#2

Date : 9-APR-2003

Job No. : 32K0403167

True Proposal : 0.00

Depth	T.V.D.	V.S.	Inc	True	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	100.00	0.67	0.79	14.64	0.67	0.17	0.79
200.00	199.99	1.95	0.71	5.53	1.95	0.41	0.14
300.00	299.98	3.39	0.95	7.71	3.39	0.58	0.24
400.00	399.97	4.76	0.70	333.64	4.76	0.42	0.54
500.00	499.96	5.29	0.45	91.55	5.29	0.54	0.99
600.00	599.96	5.05	0.80	109.25	5.05	1.58	0.40
700.00	699.95	4.89	0.97	85.66	4.89	3.08	0.40
800.00	799.92	5.24	1.79	79.57	5.24	5.46	0.84
900.00	899.87	5.75	1.69	80.66	5.75	8.46	0.11
1000.00	999.84	5.91	0.91	95.89	5.91	10.71	0.84
1100.00	1099.83	5.47	0.64	129.55	5.47	11.93	0.52
1200.00	1199.83	4.83	0.50	130.25	4.83	12.70	0.14
1300.00	1299.83	4.15	0.52	151.55	4.15	13.25	0.19
1400.00	1399.82	3.10	0.74	177.14	3.10	13.50	0.35
1500.00	1499.81	1.67	0.97	159.44	1.67	13.83	0.35
1600.00	1599.79	0.05	0.95	184.09	0.05	14.06	0.41
1700.00	1699.78	-1.75	1.25	205.82	-1.75	13.53	0.51
1800.00	1799.74	-4.29	1.82	191.81	-4.29	12.73	0.68
1900.00	1899.68	-7.37	1.97	206.55	-7.37	11.64	0.51
2000.00	1999.63	-10.50	1.84	186.75	-10.50	10.69	0.67
2100.00	2099.53	-14.84	3.14	179.88	-14.84	10.50	1.33
2200.00	2199.36	-20.72	3.60	181.98	-20.72	10.40	0.48
2300.00	2299.19	-26.54	3.08	182.86	-26.54	10.16	0.53
2400.00	2399.06	-31.64	2.78	184.23	-31.64	9.85	0.30
2500.00	2498.94	-36.52	2.82	179.69	-36.52	9.68	0.22
2600.00	2598.84	-40.98	2.30	185.01	-40.98	9.52	0.57
2700.00	2698.78	-44.28	1.49	177.98	-44.28	9.39	0.85
2800.00	2798.75	-46.71	1.32	171.19	-46.71	9.61	0.23
2900.00	2898.73	-48.80	1.09	181.08	-48.80	9.77	0.31
3000.00	2998.72	-50.48	0.83	178.23	-50.48	9.77	0.26
3100.00	3098.70	-51.88	0.78	185.88	-51.88	9.72	0.12
3200.00	3198.70	-53.19	0.74	191.85	-53.19	9.52	0.09
3300.00	3298.69	-54.45	0.77	201.90	-54.45	9.14	0.14
3400.00	3398.68	-55.66	0.71	197.05	-55.66	8.71	0.09
3500.00	3498.67	-56.79	0.68	206.26	-56.79	8.26	0.12
3600.00	3598.66	-57.68	0.70	233.57	-57.68	7.51	0.33
3700.00	3698.66	-58.44	0.83	237.50	-58.44	6.41	0.14
3800.00	3798.65	-59.18	0.78	238.47	-59.18	5.22	0.05
3900.00	3898.64	-59.83	0.83	246.42	-59.83	3.97	0.12

S C I E N T I F I C D R I L L I N G

Inrun Survey
for

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Mewbourne Oil Company

Well No.: Gatuna"5"Fed Com#2

Date : 9-APR-2003

Job No. : 32K0403167

True Proposal : 0.00

Depth	T.V.D.	V.S.	Inc	True	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100

4000.00	3998.62	-60.31	0.95	256.03	-60.31	2.51	0.19
4100.00	4098.61	-60.64	0.95	261.15	-60.64	0.88	0.08
4200.00	4198.60	-60.73	1.03	272.60	-60.73	-0.83	0.21
4300.00	4298.58	-60.47	1.19	282.14	-60.47	-2.74	0.24
4400.00	4398.55	-59.96	1.40	284.02	-59.96	-4.94	0.22
4500.00	4498.52	-59.35	1.42	284.37	-59.35	-7.33	0.02
4600.00	4598.49	-58.60	1.52	289.41	-58.60	-9.78	0.16
4700.00	4698.45	-57.65	1.54	292.64	-57.65	-12.27	0.09
4800.00	4798.41	-56.47	1.60	298.41	-56.47	-14.73	0.17
4900.00	4898.37	-54.95	1.87	301.51	-54.95	-17.35	0.28
5000.00	4998.31	-53.11	2.06	303.32	-53.11	-20.24	0.20
5100.00	5098.24	-51.01	2.22	305.18	-51.01	-23.32	0.18
5200.00	5198.16	-48.75	2.26	305.66	-48.75	-26.51	0.04
5300.00	5298.08	-46.30	2.47	307.04	-46.30	-29.83	0.22
5400.00	5397.98	-43.57	2.65	308.20	-43.57	-33.36	0.19
5500.00	5497.87	-40.69	2.70	308.26	-40.69	-37.03	0.05
5600.00	5597.73	-37.41	3.25	309.81	-37.41	-41.05	0.55
5700.00	5697.56	-33.80	3.43	306.94	-33.80	-45.62	0.25
5800.00	5797.38	-30.16	3.54	306.65	-30.16	-50.49	0.11
5900.00	5897.19	-26.49	3.61	305.66	-26.49	-55.52	0.09
6000.00	5996.99	-22.79	3.58	306.63	-22.79	-60.59	0.07
6100.00	6096.79	-19.02	3.56	307.86	-19.02	-65.54	0.08
6200.00	6196.61	-15.18	3.43	310.36	-15.18	-70.27	0.20
6300.00	6296.44	-11.51	3.21	308.19	-11.51	-74.76	0.25
6400.00	6396.29	-8.36	3.08	301.63	-8.36	-79.25	0.36
6500.00	6496.14	-5.58	3.12	300.44	-5.58	-83.88	0.08
6600.00	6596.01	-2.95	2.87	299.88	-2.95	-88.40	0.25
6700.00	6695.91	-0.94	2.17	293.85	-0.94	-92.30	0.75
6800.00	6795.85	0.10	1.61	280.99	0.10	-95.41	0.70
6900.00	6895.82	0.45	1.36	274.18	0.45	-97.97	0.30
7000.00	6995.79	0.65	1.51	275.02	0.65	-100.47	0.15
7100.00	7095.75	0.94	1.55	277.14	0.94	-103.12	0.07
7200.00	7195.72	1.27	1.56	277.01	1.27	-105.81	0.01
7300.00	7295.67	1.66	1.80	278.04	1.66	-108.72	0.24
7400.00	7395.62	2.05	1.85	276.32	2.05	-111.88	0.07
7500.00	7495.56	2.42	2.01	276.11	2.42	-115.22	0.16
7600.00	7595.51	2.40	1.91	263.13	2.40	-118.62	0.45
7700.00	7695.46	1.83	1.72	255.38	1.83	-121.73	0.31
7800.00	7795.41	1.02	1.81	254.19	1.02	-124.70	0.10
7900.00	7895.35	-0.07	1.95	247.11	-0.07	-127.79	0.27

S C I E N T I F I C D R I L L I N G

Inrun Survey

for

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Mewbourne Oil Company

Well No.: Gatuna"5"Fed Com#2

Date : 9-APR-2003

Job No. : 32K0403167

True

Proposal : 0.00

Depth	T.V.D.	V.S.	Inc	Azimuth	Latitude	Departure	D-leg
(Feet)	(Feet)	(Feet)	Deg.	Deg.	(Feet)	(Feet)	/100

8000.00	7995.29	-1.51	2.23	246.37	-1.51	-131.14	0.28
8100.00	8095.22	-3.08	2.06	244.07	-3.08	-134.54	0.19
8200.00	8195.16	-4.42	1.88	250.36	-4.42	-137.70	0.28
8300.00	8295.11	-5.42	1.52	250.30	-5.42	-140.50	0.36
8400.00	8395.08	-6.32	1.53	250.06	-6.32	-143.00	0.01
8500.00	8495.04	-7.33	1.55	245.62	-7.33	-145.49	0.12
8600.00	8595.01	-8.26	1.31	251.52	-8.26	-147.80	0.28
8700.00	8695.00	-8.67	0.73	265.67	-8.67	-149.52	0.63
8800.00	8794.99	-8.79	0.71	263.28	-8.79	-150.77	0.04
8900.00	8894.98	-8.90	0.72	266.24	-8.90	-152.02	0.04
9000.00	8994.97	-8.97	0.85	267.61	-8.97	-153.38	0.13
9100.00	9094.95	-8.85	1.15	278.54	-8.85	-155.11	0.35
9200.00	9194.94	-8.63	0.94	275.40	-8.63	-156.92	0.21
9300.00	9294.92	-8.37	0.86	284.25	-8.37	-158.47	0.16
9400.00	9394.91	-7.81	1.14	292.23	-7.81	-160.12	0.31
9500.00	9494.89	-6.89	1.14	302.88	-6.89	-161.87	0.21
9600.00	9594.87	-5.72	1.20	307.19	-5.72	-163.54	0.11
9700.00	9694.84	-4.47	1.36	301.55	-4.47	-165.38	0.20
9800.00	9794.81	-3.26	1.58	295.08	-3.26	-167.64	0.28
9900.00	9894.77	-2.03	1.70	296.14	-2.03	-170.22	0.13
10000.00	9994.72	-0.86	1.80	289.08	-0.86	-173.03	0.24
10100.00	10094.68	0.25	1.70	293.54	0.25	-175.87	0.17
10175.00	10169.65	1.20	1.62	298.98	1.20	-177.82	0.24

The Horizontal Displacement (in Feet) at
Measured Depth 10175.00 is 177.82 in a Direction of 270.39 Degrees

Directional Report

WELL NAME: Gatuna 5 Federal #2
 SURFACE LOC: 1980' FNL & 1650' FWL. Sec. 5 T-20S R-29E
 COUNTY: Eddy STATE: N.M.

TARGET ZONE: Morrow
 TARGET DEPTH: 11183 FT @ TVD
 TARGET ANGLE: N/A AZIMUTH
 LENGTH HORZ: N/A FT
 PLANNED KOP: 0 FT @ TVD
 ACTUAL KOP: 10000 FT

----- BEGINNING SURVEY-----

COMPANY: Scientific

SURVEY TYPE: Gyro

	DEPTHS:	FROM	0 FEET	TO	10172 FEET		
	MD	INCL	AZIMUTH	TVD	RECTANGULAR COOR.	CLSR DIST	
	(ft)	(deg)	(deg)	(ft)	(N+/S-)	(E+/W-)	(ft)
	10000.00	1.80	289.08	9994.72	-0.86	-173.03	173.03
Ending Location	11619.00	1.75	300	11612.1	33.9	-234.5	236.9

MEASURED DEPTH	INCL ANGLE	HOLE AZIMUTH	TRUE VERT DEPTH	VERTICAL SECTION	NEW COOR- DINATES	NEW COOR- DINATES	CLOSURE DIST.	BUILD RATE	DOGLEG SVRTY
(ft)	(deg)	(deg)	(ft)	(ft)	(N+/S-)	(E+/W-)	(ft)	(deg/100')	(deg/100')

10100	1.70	293.54	10094.7	0.0	0.2	-175.9	175.9	-0.1	0.2
10175	1.62	298.98	10169.6	0.0	1.2	-177.8	177.8	-0.1	0.2
10202	1.75	300.00	10196.6	0.0	1.6	-178.5	178.5	0.5	0.5
10463	3.50	300.01	10457.3	0.1	7.6	-188.9	189.0	0.7	0.7
10585	3.75	300.00	10579.1	0.1	11.4	-195.5	195.9	0.2	0.2
11186	2.00	300.01	11179.3	0.2	26.5	-221.6	223.2	-0.3	0.3
11340	2.00	300.00	11333.2	0.4	29.2	-226.3	228.2	0.0	0.0
11496	2.00	300.01	11489.1	0.5	31.9	-231.0	233.2	-0.0	0.0
11619	1.75	300.00	11612.1	0.6	33.9	-234.5	236.9	-0.2	0.2
0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OPERATOR: MEWBOURNE OIL CO.
WELL/LEASE: GATUNA CANYON 5 FED. 2
COUNTY: EDDY

048-0016

STATE OF NEW MEXICO
DEVIATION REPORT

172	3/4	6,096	3
290	1 1/4	6,224	3 1/4
375	1	6,351	3
471	3/4	6,477	3
588	1 1/4	6,605	2 3/4
709	3/4	6,765	1 3/4
834	1 1/2	7,020	1 1/2
993	1	7,275	1 1/2
1,177	1/4	7,531	2 1/4
1,304	1/2	7,913	2
1,533	1 1/4	8,167	2
1,841	2 1/4	8,419	1 3/4
1,969	2 1/4	8,664	1
2,094	3	8,927	1/2
2,384	3	9,185	1 1/4
2,543	2 3/4	9,439	1 3/4
2,701	1 1/4	9,693	1 1/2
2,860	1	9,946	1 3/4
3,019	1 1/4	10,202	1 3/4
3,286	3/4	10,463	3 1/2
3,510	3/4	10,585	3 3/4
3,766	1	11,186	2
4,020	3/4	11,340	2
4,276	1 1/4	11,496	2
4,530	1 1/2	11,619	1 3/4
4,786	1 1/2		
5,042	2		
5,297	2 1/4		
5,617	3		
5,744	3 3/4		
5,808	3		
5,904	3 1/2		
6,000	3 3/4		



By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 6th day of May, 2003, by
Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007

