

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM-0144698

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Gatuna Federal #2

9. API WELL NO.

30-015-32652

10. FIELD AND POOL, OR WILDCAT
Burton Flats East Morrow11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 5 T-20S R-29E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Otherb. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR

Mewbourne Oil Company 14744

3. ADDRESS AND TELEPHONE NO.

PO Box 5270, Hobbs, N.M. 88241. (505) 393-5905

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

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

Eddy

13. STATE

NM

15. DATE SPUDDED

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. CASINGHEAD

3294'

20. TOTAL DEPTH, MD & TVD

11650'

21. PLUG, BACK T.D., MD & TVD

11556'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

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)
					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

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

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.	Azimuth 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	199.93	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	499.98	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	80.86	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	13.33	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	0.87
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	9.38	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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Mawbourne 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.	Azimuth	(Feet)	(Feet)	/100
				Deg.			

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	3.06	301.63	-8.36	-79.25	0.38
6500.00	6496.14	-5.56	3.12	300.44	-5.56	-83.86	0.08
6600.00	6596.01	-2.95	2.87	299.86	-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	0.26
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')

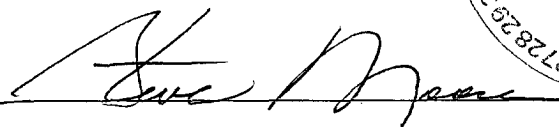
10100	1.70	293.54	10094.7	0.0	0.2	-175.9	175.9	-0.1	0.2
10175	1.62	298.98	10169.6	0.0	1.2	-177.8	177.8	-0.1	0.2
10202	1.75	300.00	10196.6	0.0	1.6	-178.5	178.5	0.5	0.5
10463	3.50	300.01	10457.3	0.1	7.6	-188.9	189.0	0.7	0.7
10585	3.75	300.00	10579.1	0.1	11.4	-195.5	195.9	0.2	0.2
11186	2.00	300.01	11179.3	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		

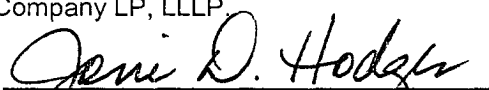
By: 



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.


Notary Public for Midland County, Texas

My Commission Expires: 4/08/2007

