

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE.

(See other in-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:

OIL WELL

GAS WELL

DRY

RECEIVED

b. TYPE OF COMPLETION:

NEW WELL

WORK OVER

DEEPEN

PLUG BACK

DIFF. RESVR.

Other

2. NAME OF OPERATOR

MESA GRANDE RESOURCES, INC.

3. ADDRESS OF OPERATOR

1200 Philtower Building, Tulsa, Oklahoma 74103

BUREAU OF LAND MANAGEMENT

FARMINGTON RESOURCE AREA

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1850' FWL & 1700' FNL

At top prod. interval reported below

At total depth

1850' FWL & 1700' FNL

14. PERMIT NO.

DATE ISSUED

9/17/84

15. DATE SPUNDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DE, RKB, RT, GR, ETC.)*

12. COUNTY OR PARISH

13. STATE

Rio Arriba

New Mexico

7215' GR

9/26/85

10/16/84

10/19/85

8024'

7416'

7215' GR

ROTARY TOOLS

CABLE TOOLS

Surf. - T.D.

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Upper Gallup - 38 holes, .34" diameter -- 6610-7104

Lower Gallup - 23 holes, .34" diameter -- 7254-7395

25. WAS DIRECTIONAL SURVEY MADE

yes, attached

26. TYPE ELECTRIC AND OTHER LOGS RUN

Long spaced sonic Cyberlook

Induction-SFL/Formation Density-Compensated Neutron

27. WAS WELL CORED

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	476'	12 1/4"	265 SX Class B	-0-
7"	23# + 26#	8002'	8 3/4"	3 staged (See attached #1)	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	6800	---

31. PERFORATION RECORD (Interval, size and type)

RECEIVED
NOV 07 1985

See attached #1

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	See attached #1

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)		
10/21/85	Pumping Vulcan 320 w/120" Stroke				Testing		
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL-BBL	GAS-MCF	WATER-BBL	GAS-OIL RATIO
10/19/85	24	1 1/4"	→	149	200	24 load	1342:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL	GAS-MCF	WATER-BBL	OIL GRAVITY-API (CORR.)	
Pumping	136#	→	149	200	24 load	46	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Fuel 14 Mcf - vented balance

TEST WITNESSED BY

Ron Sorrow

35. LIST OF ATTACHMENTS

Attachment #1, Items 31 & 32

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE

DATE

*(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):

38.

GEOLoGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	TOP MEAS. DEPTH	TRUE VERT. DEPTH
3107	3242		Ojo Alamo - Water bearing sandstone	Ojo Alamo	3107	3107
3242	3296		<u>Kirkland</u> - Shale	Kirkland	3242	3242
3296	3385		Fruitland - Sandstone, Shale & Coal sequence, contains both water & gas in the sands.	Fruitland	3296	3296
3385	3500		<u>Pictured Cliffs</u> - Gas bearing sandstones	Pictured Cliffs	3385	3385
3500	5008		<u>Lewis</u> - Shale sequence	Lewis	3506	3506
5008	5286		<u>Cliff House</u> - Water wet sandstone	Cliff House	5008	5008
5286	5528		<u>Menefee</u> - Sandstone, shale & coal sequence, sandstones could contain one or any combination of oil, gas or water.	Menefee	5286	5286
5528	5773		<u>Point Lookout</u> - Sandstone sequence containing oil & gas.	Point Lookout	5528	5528
5773	6740		<u>Mancos</u> - Shale	Mancos	5773	5773
6740	7283		<u>Gallup</u> - Sandstone, siltstone & shale - contains varying amounts of oil & gas	Gallup	6740	6740
7283	7396		<u>Sanostee</u> - Siltstone - oil & gas bearing	Sanostee	7283	7283
7396	7580		<u>Carlile</u> - Calcareous shale - oil & gas	Carlile	7396	7396
7580	7655		<u>Greenhorn</u> - Limestone & shale - oil & gas	Greenhorn	7580	7580
7655	7757		<u>Graneros</u> - Sandstone & shale - oil & gas bearing	Graneros	7655	7655
7757	8024		<u>Dakota</u> - Sandstone & shale - oil, gas & water	Dakota	7757	7757

ATTACHMENT TO FORM 3160-4
#1

Lease Number: NM-04083
Operator: MESA GRANDE RESOURCES, INC.
Well: #1 FEDERAL HELLCAT

<u>#31 Perforation Record</u>	<u># Holes</u>	<u>Size</u>
Dakota: 7,800-847, 7,758-68	33	.48"
Graneros: 7,716-20, 7,667-93	17	.48"
Greenhorn: 7,634-46	12	.48"
Carlile: 7,501-69	19	.48"
Lower Gallup: 7,320-95, 7,249-81	23	.34"
Upper Gallup: 6,610-45, 6,706-76, 6,802-70, 6,924-98, 7,002-96, 7,100-04	38	.34"

#32 Acid, Shot, Fracture, Cement, Squeeze Record

7,634-7,847:	<u>Acidize:</u> w/3,000 gals. 15% MSR acid & 2,000# RS (Divertor)
	<u>Frac'd:</u> 77,000 gals. foam KCL water 51,000# 20/40 sand
7,501-7,569:	Acidized w/3,000 gals. 15% gelled acid
<u>PBTD</u>	7,416: Baker Model "S" B.P. at 7,470' w/ 10 sx (11.8 c.f.) on top. Cement on top at 7,416 by wireline tested to 3,000#.
7,249-7,395:	<u>Acidize:</u> 2,000 gals. 15% HCL <u>Frac'd:</u> 612 bbls. foamed 2% KCL water & 40,000# 20/40 sand w/68,000 10/20
6,610-7,104:	<u>Acidize:</u> 1,500 gals. 15% HCL <u>Frac'd:</u> 1,884 bbls. slick water 8,000# 20/40 & 65,000 10/20