

March 24, 1983

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

Gentlemen:

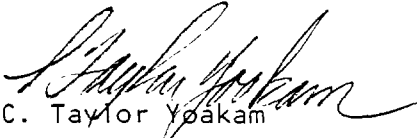
Notice of Increased Production
and Request for Further Determination
State Com AJ #34

100% WT

On January 20, 1981, Mesa Petroleum Co. ("Mesa") submitted a Section 108 application for the subject well located in San Juan County, New Mexico. The application was approved on February 16 and became final on April 6, 1981.

The purchaser, Northwest Pipeline Company, has notified Mesa that production has exceeded 60 MCFD for the 90-day period ending November, 1982. This letter then shall serve as Mesa's notice of increased production, and a request for a further determination under 18 CFR Section 271.806 that the increase in production is the result of a Recognized Enhanced Recovery Technique as defined by 18 CFR Section 271.803(a).

Very truly yours,


C. Taylor Yoakam

bas

Attachments

Copies to Northwest Pipeline Company
Federal Energy Regulatory Commission

BEFORE EXAMINER STARTS OIL CONSERVATION DIVISION Mesa EXHIBIT NO. <u>1</u> CASE NO. <u>8182</u> Submitted by <u>Mike Houston</u> Hearing Date <u>6-6-84</u>
--

RECEIVED CTV

MAR 16 1983

NORTHWEST PIPELINE CORPORATION

P.O. BOX 1526
SALT LAKE CITY, UTAH 84110-1526
801-583-8800

March 10, 1983

New Mexico Oil & Gas Conservation Commission
Department of Energy & Minerals
Oil Conservation Division
310 Old Santa Fe Road
State Land Building Room 206
P. O. Box 7088
Santa Fe, New Mexico 87501

Re: Well No. State Com AJ #34
Docket No. N/A

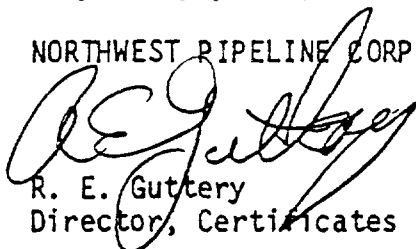
Gentlemen:

Northwest Pipeline Corporation (Northwest) submits herewith for filing its Notice of Increased Production for the referenced well in accordance with Section 271.805(a) of the Federal Energy Regulatory Commission's Regulations implementing the Natural Gas Policy Act of 1978.

Please accept this notice for filing and acknowledge its receipt by stamping the attached additional copy and returning it to the undersigned. Any questions may be addressed to Ms. Jan Wayman, (801) 584-7111.

Very truly yours,

NORTHWEST PIPELINE CORPORATION


R. E. Guttery
Director, Certificates

REG:kyn
Enclosures

cc: Federal Energy Regulatory Commission
Mesa Petroleum

Form 121 Dated: 1-20-81

Date Received by Jurisdictional Agency: 1-30-81 Docket No.

Date Approved by Jurisdictional Agency: N/A

Date Received by Commission: N/A Docket No.

Well Name: State Com AJ #34 (75620) API Number: N/A

Location: Sec 31 T32N R12W Field/Reservoir: Basin DK

County: San Juan State: NM

Operator: Mesa Petroleum Company Purchaser: Northwest Pipeline Corporation

Address: P. O. Box 2009 Address: Certificates-10466

Amarillo, TX 79789 P. O. Box 1526

Salt Lake City, UT 84110-1526

<u>Month</u>	<u>Year</u>	<u>Days Flow</u>	<u>Vol. @ 14.73 psia</u> <u>in Mcf</u>	<u>Oil Production</u>
<u>SEP</u>	<u>82</u>	<u>3</u>	<u>197</u>	<u>----</u>
<u>OCT</u>	<u>82</u>	<u>10</u>	<u>1944</u>	<u>----</u>
<u>NOV</u>	<u>82</u>	<u>30</u>	<u>2430</u>	<u>----</u>
<u>TOTAL</u>		<u>43</u>	<u>4571</u>	<u>----</u>

Nov NONE

STATE OF UTAH

.)

:ss.

CITY AND COUNTY OF SALT LAKE

)

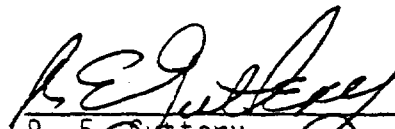
I, R. E. GUTTERY, having first been duly sworn, states that I am a responsible official of Northwest Pipeline Corporation ("Northwest") and further states:

i) that the production summary included with this notice accurately reflects the production volume for the well and the number of producing days as defined in Section 271.803(d) of the Regulations of the Federal Energy Regulatory Commission;

ii) that all the information contained in this notice is true to the best of my information, knowledge and belief; and

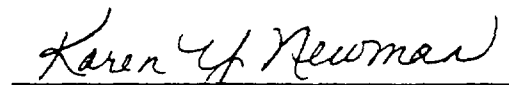
iii) that Northwest has served a copy of this notice on the interested jurisdictional agencies, the designated operators, and other purchasers.

Dated this 10th day of March, 1983.



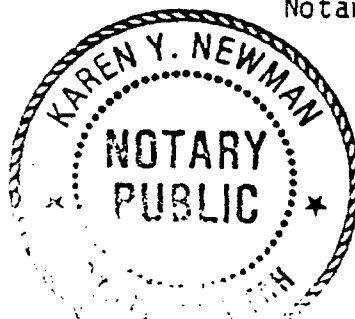
R. E. Guttery
Director, Certificates
Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City, Utah 84110-1526

SUBSCRIBED AND SWORN to before me, a Notary Public, in and for the State and County aforesaid, on this 10th day of March, 1983.


Notary Public

My Commission Expires:

6-9-86



OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-132
Revised 7-15-80

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

APPLICATION FOR WELLHEAD

PRICE CEILING CATEGORY DETERMINATION

FOR DIVISION USE ONLY:

DATE COMPLETE APPLICATION FILED 1/30/81DATE DETERMINATION MADE 2/11/81WAS APPLICATION CONTESTED? YES NO ☒

NAME(S) OF INTERVENOR(S), IF ANY:

1. Name of Operator

Mesa Petroleum Co.

2. Address of Operator

P. O. Box 2009 Amarillo, TX 79189

3. Location of Well

UNIT LETTER D LOCATED 790 FEET FROM THE North LINE

4. FEET FROM THE West

LINE OF SEC. 31 TWP. 32N SEC. 12W RANGE

5. Name and Address of Purchaser(s)

Northwest Pipeline Company, P. O. Box 1526, Salt Lake City, UT 84110

5A. Indicate Type of Lease

STATE ☒FEE ☐

5. State Oil & Gas Lease No.

E-3151-1

7. Unit Agreement Name

8. Farm or Lease Name

State Com AJ

9. Well No.

34

10. Field and Pool, or Wellhead Basin Dakota

12. County

San Juan

WELL CATEGORY INFORMATION

Check appropriate box for category sought and information submitted.

1. Category(ies) Sought (By NGPA Section No.) 108

2. All Applications must contain:

- ☒ a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
☒ b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
☐ c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
☒ d. AFFIDAVITS OF MAILING OR DELIVERY

3. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules for Applications For Wellhead Price Ceiling Category Determinations" as follows:

A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)

☐ All items required by Rule 14(1) and/or Rule 14(2)

B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)

☐ All items required by Rule 15

C. NEW ONSHORE PRODUCTION WELL

☐ All items required by Rule 16A or Rule 16B

D. DEEP, HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS

☐ All items required by Rule 17(1) or Rule 17(2)

E. STRIPPER WELL NATURAL GAS

☒ All items required by Rule 18

JAN 30 1981

FOR DIVISION USE ONLY

☒ Approved☐ Disapproved

The information contained herein includes all of the information required to be filed by the applicant under Subpart B of Part 274 of the FERC regulations.

HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Mesa Petroleum Co.

NAME OF APPLICANT (Type or Print)

SIGNATURE OF APPLICANT

Title Manager - Gas Sales & Contracts

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-132-A
Revised 5-10-81APPLICATION FOR CONTINUED
STRIPPER CLASSIFICATION

FOR DIVISION USE ONLY:

DATE COMPLETE APPLICATION FILED _____

DATE DETERMINATION MADE _____

WAS APPLICATION CONTESTED? YES _____ NO _____

NAME(S) OF INTERVENOR(S), IF ANY: _____

1. Name of Operator

MESA PETROLEUM CO.

2. Address of Operator

P. O. Box 2009, Amarillo, TX 79189

3. Location of Well

UNIT LETTER D LOCATED 790 FEET FROM THE North LINE

4. Location of Well

790 FEET FROM THE West LINE OF SEC. 31 TWP. 32N RGE. 12W NEPM

5. Name and Address of Purchaser(s)

Northwest Pipeline Company P. O. Box 1526, Salt Lake City, UT 84110

5A. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

E-3151-1

7. Unit Agreement Name

8. Farm or Lease Name

State Com AJ

9. Well No.

34

10. Field and Pool, or Wildcat

Basin Dakota

12. County

San Juan

CLASSIFICATION

1. Check appropriate box for category sought and information submitted.
2. All applications must contain the items required by the applicable rule of the Division's "Special Rules For Applications For Wellhead Price Ceiling Category Determinations" as follows:
 - A. Increased production resulting from recognized enhanced recovery techniques
 - ☒ All items required by Rule 19
 - B. Well is seasonally affected
 - ☐ All items required by Rule 20
 - C. Increased production resulting from temporary pressure buildup
 - ☐ All items required by Rule 21

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

MESA PETROLEUM CO.

NAME OF APPLICANT (Type or Print)

SIGNATURE OF APPLICANT

Title Manager, Gas Sales & ContractsDate 3-25-83

FOR DIVISION USE ONLY

☐ Approved☐ DisapprovedThe information contained herein includes all
of the information required to be filed by the
applicant under Subpart B of Part 274 of the
FERC regulations.

EXAMINER

STATE COM AJ #34

The State Com AJ #34 well was completed in the Basin Dakota formation in March, 1967, and has produced from that formation since that date. Beginning with 1979, the production rate had declined to a rate averaging less than 60 MCFD for several 90-day periods, but not for the entire year. Mesa declined to certify the well as a stripper at that time.

During 1979 and 1980, production steadily declined to rates at or below 60 MCFD. The number of producing days remained at or close to the maximum for both years.

On January 20, 1981, Mesa filed for and received a stripper well category determination for the well based on production for the 90-day period ending November 30, 1980. The well continued to produce below the 60 MCFD average through 1981 and 1982 until June of 1982.

Beginning in June of 1982, the State Com AJ #34 was shut-in for a various number of days each month. This shut-in time mechanically stimulates the reservoir by allowing a greater than normal reservoir pressure to build, and when the well is brought back on-line allows it to produce at rates in excess of 60 MCFD. For the last four to five months, this technique has successfully increased the total monthly production volumes above the stripper rate by 100 to 1100 MCF per month. This increase is solely due to the above described method of alternately producing and shutting-in the well as described.

To the best of our knowledge had we not employed this production method, the monthly production rate would not have increased and the well would have remained a stripper well based on the 60 MCFD rate definition. We estimate that by continuing to mechanically stimulate the reservoir in the manner described, we can continue to increase production from the well by 400-600 MCF per month.

Please note the attached graphs which illustrate the above mentioned points.

STATE COM AJ#34

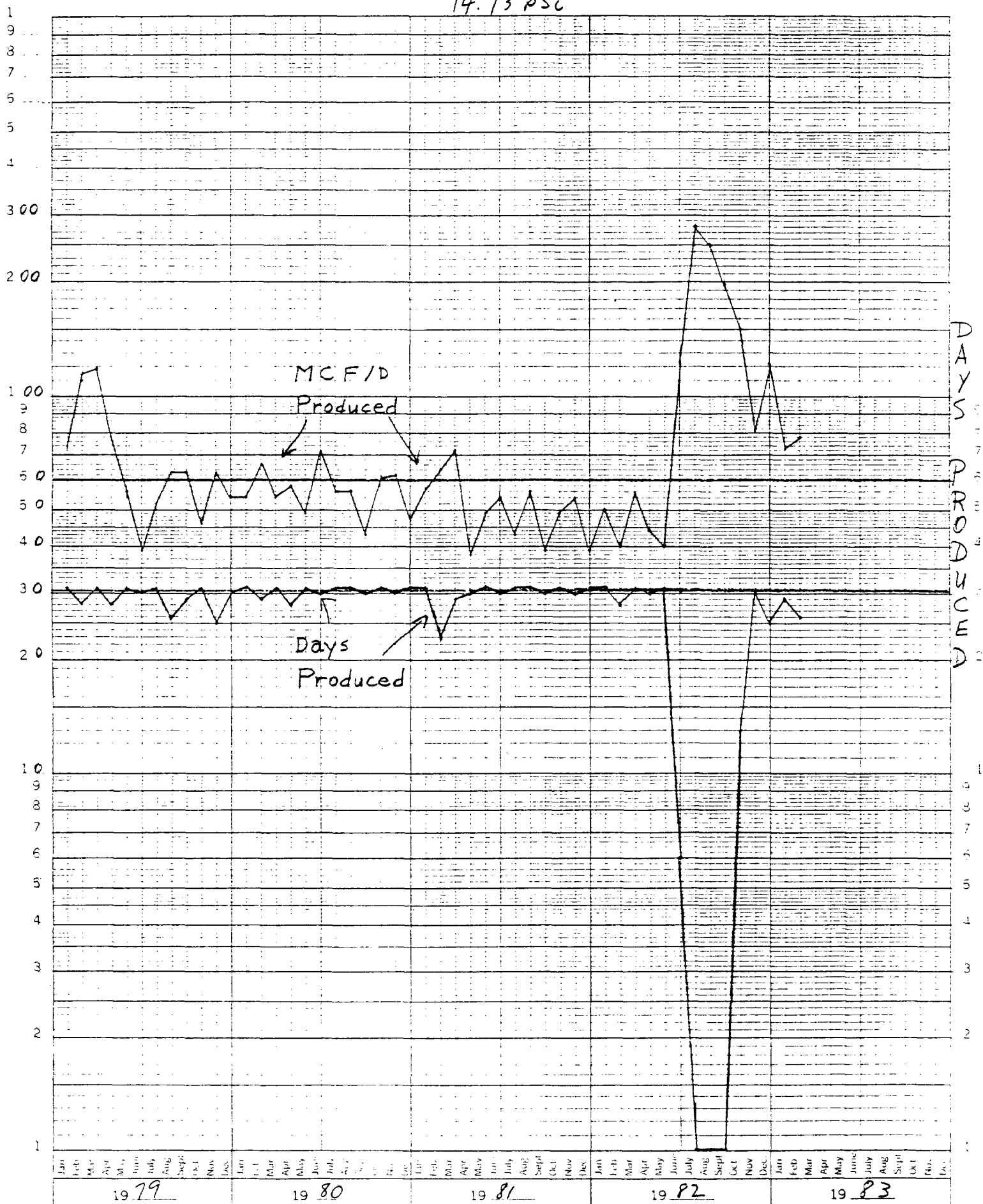
14.73 psi

46 6690

5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.



14.73 psi



K₂S
5 YEARS BY MONTHS x 3 LOG CYCLES
KEUFFEL & ESSER CO. MADE IN U.S.A.

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LAND OFFICE	
OPERATOR	

Form C-105
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.
X-1151-1

1a. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____
b. TYPE OF COMPLETION
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER _____

7. Unit Agreement Name
8. Farm or Lease Name
State Com A1

2. Name of Operator
PUECO PETROLEUM CORP.
3. Address of Operator
P.O. Box 1, Artes, New Mexico 87410
4. Location of Well

9. Well No.
34
10. Field and Pool, or Willacut
Dakota Dakota

UNIT LETTER **D** LOCATED **790** FEET FROM THE **North** LINE AND **750** FEET FROM
THE **West** LINE OF SEC. **35** TWP. **32 N** RGE. **12 W** NMPM

12. County
San Juan

15. Date Spudded **2-12-67** 16. Date T.D. Reached **2-26-67** 17. Date Compl. (Ready to Prod.) **3-5-67** 18. Elevations (DF, RKB, RT, GR, etc.) **6406 Gr. 6416 KB** 19. Elev. Casinghead **6405**

20. Total Depth **7673 KB** 21. Plug Back T.D. **7668 KB** 22. If Multiple Compl., How Many **Single** 23. Intervals Drilled By Rotary Tools **0 to 7673** Cable Tools _____

24. Producing Interval(s), of this completion - Top, Bottom, Name
7420-7438 Grasperos
7506-7653 Dakota
25. Was Directional Survey Made **No**

26. Type Electric and Other Logs Run
Schl., Induction and Gamma-Ray-Formation Density
27. Was Well Cored **No**

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4" OD	32.75	350 KB	15"	250 sack Class A	None
7 5/8" OD	26.42	3114 KB	9 7/8"	440 sack Class C	None
5 1/2" OD	10.52	7673 KB	6 3/4"	360 sack Class C	None

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2 3/8"	7656' KB	None

31. Perforation Record (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	SIZE	NUMBER	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7645-58	0.45"	48 holes	7645-58'	57,000 Gal. 5Hr-23,000# sd.
7534-58	0.45"	20 holes	7504-58'	72,000 Gal. 4Hr-55,000# sd.
7504-58	0.45"	20 holes	7420-46	35,000 Gal. 4Hr-25,000# sd.
7502-36	0.45"	54 holes		
7420-46	0.45"	104 holes		

33. PRODUCTION
Date First Production **W.O. completion** Production Method (Flowing, gas lift, pumping - Size and type pump) **Flowing** Well Status (Prod. or Shut-in) **P.I.**
Date of Test **3-23-67** Hours Tested **1** Choke Size **2 1/2"** Prod'n. For Test Period **0** Oil - Bbl. **0** Gas - MCF **0** Water - Bbl. **0** Gas-Oil Ratio **---**
Flow Tubing Press. **450 psig** Casing Pressure **1201 psig** Calculated 24-Hour Rate **0** Oil - Bbl. **0** Gas - MCF **5540** Water - Bbl. **0** Oil Gravity - API (Corr.) **---**

34. Disposition of Gas (Sold, used for fuel, vented, etc.) **Vented** Test Witnessed By **Don C. Miller**

35. List of Attachments
Electric and Density Logs

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED _____ TITLE **District Engineer** DATE **4-17-67**

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland 2453	T. Penn. "C" _____
B. Salt _____	T. Atoka _____	T. Pictured Cliffs 2988	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House 5124	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee 4773	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout 5273	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos 5600	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn 7370	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota 7306	T. _____
T. Blinbry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
			See Electric Logs				

PAGE 108

COMP DATE	:	03-05-67	
TEST PROD	:	06-06-67	
PERF INTERVAL	:	7,420--	7,658
PERF IN(ADP)	:	7,824	
ORIG GRAVITY	:	3639	
LIQ GRAVITY	:	36.0	
RTU	:	1,065	

-TEST DATA-
SIIP

GAS AND CONDENSATE PRODUCTION STATISTICS					
GAS GATHERER :	PERMIAN (TEXACO)				
LIV INT OIL :	84.25000	EFFECTIVE			73-05
REV INT GAS :	84.25000	EFFECTIVE			73-05
WORKING INT :	100.00000	EFFECTIVE			73-05
TYPK INT :	I.O.				
METHOD PROD :	W.FLOWING				
STATUS :	PRODUCING				

DATE	DATE DAY	MESA MCF	GROSS MCF	GROSS MCF	GROSS MCF	CUM HMCF	MESA BBLs
1974	01	21,500	5,519	15,981	14.73	478.2	30
1975	02	25,426	30,178	2,096		508.2	
1976	03	22,409	26,599	1,130		534.8	
1977	04	25,457	30,217	1,487		565.0	
1978	05	30,945	36,729	1,595		601.7	
1979	06	19,710	23,395	1,307		625.2	
1980	07	16,877	20,033	1,156		645.2	
81-01	31	1,450	1,721	1,755		646.9	
81-02	29	1,731	2,055	1,470		648.3	
81-03	31	1,952	1,130	2,096		650.4	
81-04	31	1,253	1,487	1,153		651.5	
81-05	31	1,344	1,595	1,517		653.0	
81-06	30	1,101	1,307	1,627		654.6	
81-07	31	1,441	1,710	1,333		655.9	
81-08	31	1,974	1,156	1,744		657.6	
81-09	30	1,253	1,487	1,179		658.8	
81-10	31	1,339	1,589	1,517		660.3	41
81-11	30	1,092	1,178	1,621		661.9	
81-12	31			1,202		663.1	41
82-01	31	1,273	1,510	1,540		664.9	7
82-02	31	1,444	1,714	1,118		665.4	
82-03	30	1,099	1,305	1,748		667.4	
82-04	31	1,031	1,224	1,331		668.7	
82-05	31	610	724	1,249		669.9	
82-06	6	232	275	738		670.6	
82-07	1	206	245	281		670.9	
82-08	1	163	193	250		671.1	
82-09	13	1,606	1,906	197		671.3	
82-10	25	2,007	2,382	1,944		673.2	
82-11	25	2,493	2,959	2,430		675.6	
82-12	25			3,018		678.6	1
83-01	29	1,741	2,066	2,107			
83-02	26	1,666	1,977	2,017			

DECEMBER	LEASE NAME	PROPERTY	COUNTY	STATE	FIELD	FRESERVE	VOIR	LINE	LINE	LINE	DATE	DAY
	1974	81-01	01	31	31							
	1975	81-02	03	29	29							
	1976	81-01	04	31	31							
	1977	81-05	06	30	30							
	1978	81-07	08	31	31							
	1979	81-09	10	31	31							
	1980	81-11	11	30	31							
		81-12	12	31	31							
		82-01	01	31	31							
		82-02	03	31	30							
		82-04	30	31	31							
		82-05	31	6	1							
		82-06	07	1	1							
		82-08	08	13	13							
		82-09	09	13	30							
		82-10	10	25	25							
		82-11	11	25	25							
		82-12	12	25	25							
		83-01	01	29	29							
		83-02	02	26	26							

ENHANCED RECOVERY
STRIPPER WELL

STATE OF TEXAS)
)
COUNTY OF POTTER) ss:

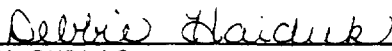
C. TAYLOR YOAKAM, being first duly sworn, on oath deposes and says:

That he has made or has caused to be made, pursuant to his instructions, a diligent search, where necessary, of all records which are reasonably available and contain information relevant to the determination of eligibility; that he reviewed or caused to be reviewed where available all company production records as to the well; that on the basis of the information obtained from this search, examination, and review he has concluded that to the best of his information, knowledge and belief, the well qualifies as a stripper well; that production substantially increased as a sole result of an enhanced recovery method which was implemented more than two years after the initial completion date; that he has no knowledge of any other information not described in the application which is inconsistent with his conclusions. He further states that he has caused notification of this request to be mailed to the purchaser(s), co-lessees, the Commission and the applicable Jurisdictional Agency.



C. TAYLOR YOAKAM
Attorney-in-Fact

SUBSCRIBED AND SWORN to before me this 25th day of March,
1983.



NOTARY PUBLIC

My Commission/Appointment Expires:
3-22-84