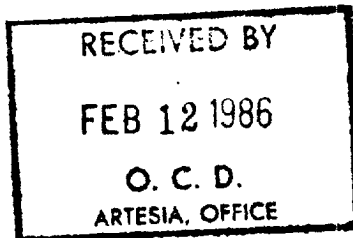


STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		✓
FILE		✓
U.S.G.A.		
LAND OFFICE		
TRANSPORTER	OIL	✓
	GAS	✓
OPERATOR		✓
PERMATION OFFICE		



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 08-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. Operator Mesa Operating Limited Partnership ✓

Address P.O. Box 2009, Amarillo, Texas 79189

Reason(s) for filing (Check proper box)

☐ New Well	Change in Transporter of:	
☐ Recompletion	☐ Oil	☐ Dry Gas
☒ Change in Ownership	☐ Casinghead Gas	☐ Condensate

Other (Please explain) _____

If change of ownership give name and address of previous owner Mesa Petroleum Co., P.O. Box 2009, Amarillo, Texas 79189

II. DESCRIPTION OF WELL AND LEASE

Lease Name HAYSTACK FEDERAL	Well No. 1	Pool Name, including Formation Pecos Slope Abo	Kind of Lease State <u>Federal</u> or Fee NM	Lease No. 310633
Location				
Unit Letter <u>0</u> : <u>990</u> Feet From The <u>SOUTH</u> Line and <u>1980</u> Feet From The <u>EAST</u>				
Line of Section <u>31</u> Township <u>6S</u> Range <u>27E</u> , NMPM, <u>Chaves</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)
Permian Corporation	P.O. Box 1183/Houston, Texas 77001
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)
Transwestern Pipeline Co. (Attn: Aicklen)	P.O. Box 2521/Houston, Texas 77001
If well produces oil or liquids, give location of tanks.	Is gas actually connected? When
Unit <u>0</u> Sec. <u>31</u> Twp. <u>6</u> Rge. <u>27</u>	NO

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Carolyn L. Cummings
(Signature)
Carolyn L. Cummings, Regulatory Clerk
February 14, 1986
(Date)

OIL CONSERVATION DIVISION
FEB 28 1986

APPROVED _____, 19 _____
BY Les A. Clements
TITLE Supervisor District II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL ☐	GAS WELL ☒	DRY ☐	Other _____		
b. TYPE OF COMPLETION:		NEW WELL ☒	WORK OVER ☐	DEEP-EN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	Other _____
2. NAME OF OPERATOR Mesa Petroleum Co.						7. UNIT AGREEMENT NAME Haystack Federal	
3. ADDRESS OF OPERATOR P. O. Box 2009 / Amarillo, Texas 79189						9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 990' FSL & 1980' FEL At top prod. interval reported below Same At total depth Same						10. FIELD AND POOL, OR WILDCAT Pecos Slope Abo	
14. PERMIT NO. 7-27-82						11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 31, T6S, R27E	
15. DATE SPUDDED 8-1-82						12. COUNTY OR PARISH Chaves	
16. DATE T.D. REACHED 8-9-82						13. STATE NM	
17. DATE COMPL. (Ready to prod.) 10-7-83						18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3884' GR	
20. TOTAL DEPTH, MD & TVD 5000'						19. ELEV. CASINGHEAD 3884'	
21. PLUG, BACK T.D., MD & TVD 4834'						23. INTERVALS DRILLED BY All	
22. IF MULTIPLE COMPL., HOW MANY*						24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4406' -- 4661', Abo	
26. TYPE ELECTRIC AND OTHER LOGS RUN GR-CBL-CCL, CNLD						25. WAS DIRECTIONAL SURVEY MADE No	
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	
10 3/4"	40.5#	980'	14 3/4"	700/200/75			
4 1/2"	10.5#	4885'	7 7/8"	1300/500			
29. LINER RECORD						30. TUBING RECORD	
Size	Top (MD)	Bottom (MD)	Sacks Cement*	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)
					2 3/8"	4669'	
31. PERFORATION RECORD (Interval, size and number) 4406'-08', 10', 4513', 42', 57', 4649', 51'-58', 60', 61'; total of 18 holes; 1 JSPF						32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
						Depth Interval (MD)	
						Amount and Kind of Material Used	
						4406' - 4661' A/3000 gal HCl + 45 BS	
						4406' - 4661' F/42,000 gal YF4 + 14,000 gal	
						CO2 + 104,000# 20/40 + 60,000#	
						10/20	
33.* PRODUCTION							
Date First Production WOPLC		Production Method (Flowing, gas lift, pumping—size and type of pump) Flowing				Well Status (Producing or shut-in) Shut-in	
Date of Test 10-10-83	Hours Tested 1	Choke Size -	Prod'n. for Test Period →	Oil—BBL. 1	Gas—MCF. 1	Water—BBL.	Gas-Oil Ratio
Flow. Tubing Press. 10	Casing Pressure 10	Calculated 24-Hour Rate →	Oil—BBL.	Gas—MCF. CAOP = 24	Water—BBL.	Oil Gravity-API (Corr.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented						TEST WITNESSED BY E. L. Buttross, Jr.	
35. LIST OF ATTACHMENTS C-122, Record of Inclination							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED R. E. M. [Signature]		TITLE Regulatory Coordinator				DATE 10-12-83	

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

XC: BLM-R(0+6), CEN RCDS, ACCTG, MAT CONT, RES ENG, ROSWELL, MIDLAND, OPS(FILE), PARTNERS,
PROD, FERC, NMOCDA, TW, PERMITAN, D&M

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
NOT LOGGED				San Andres Glorieta Tubb Abo	1062' 1672' 3652' 4370'	

MESA PETROLEUM CO.
HAYSTACK FEDERAL #1
990' FSL & 1980' FEL, Sec. 31, T6S, R27E
CHAVES COUNTY, NEW MEXICO

RECORD OF INCLINATION

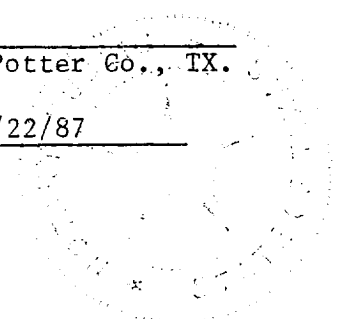
<u>DEPTH</u>	<u>DEVIATION</u>
515'	1°
2022'	1 1/2°
3090'	1 3/4°
3526'	1 1/2°
4028'	1 1/2°
4526'	1 1/2°
4744'	1°
5000'	1 1/2°

R. E. Mathis
R. E. MATHIS, Regulatory Coordinator

Subscribed and sworn to before me this
12th day of October, 1983.

Laura Fox
Notary Public in and for Potter Co., TX.

Commission Expires: 8/22/87



RECEIVED BY
Form C-122
Revised 10-1-79
OCT 21 1983
O. C. D.
ARTESIA, OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 10-10-83		ARTESIA, OFFICE	
Company MESA PETROLEUM CO.		Connection UNCONNECTED			
Pool PECOS SLOPE ABO		Formation ABO		Unit	
Completion Date 10-7-83		Total Depth 5000		Plug Back TD 4834	
				Elevation 3114' G.L.	
Farm or Lease Name HAYSTACK FEDERAL		Well No. 1			
Csq. Size 4 1/2	Wt. 10.5#	d d	Set At 4885	Perforations: From 4406 To 4661	
Thq. Size 2 3/8	Wt. 4.7#	d d	Set At 4625	Perforations: From OPEN ENDED To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE			Packer Set At NONE		County CHAVES
Producing Thru TUBING		Reservoir Temp. °F 102° @ 5000		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 13.2	
State NEW MEXICO					
L	H	G _g .65	% CO ₂ 1	% N ₂ 1	% H ₂ S
Prover 2" CRITICAL FLOW PROVER		Meter Run Taps			
FLOW DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	2" x 1/4"		5		72
2.					
3.					
4.					
5.					
TUBING DATA					
CASING DATA					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1	1.087	FLOW PROVER	18	.9887	1.24
2.					
3.					
4.					
5.					
NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons Deg.
2.					Specific Gravity Separator Gas XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure P.S.I.A. P.S.I.A.
5.					Critical Temperature R R
P _c 851	P _c ² 724				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0013$
1		23	1	723	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0013 \times 24$
2					
3					
4					
5					
Absolute Open Flow 24 Mcl @ 15.025		Angle of Slope 45°		Slope, n 1	
Remarks: Unable to run four flow rates due to low delivery of well. Assumed N=1 and based calculations on one point test.					
Approved By Division		Conducted By: JAMES CRAIG		Calculated By: E.L. BUTTROSS, JR. 10-11-83	
				Checked By:	

MESA PETROLEUM CO.
 HAYSTACK FEDERAL #1
 CHAVES CO., NM
 10-10-83

