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Form C-105  
Revised 1-1-65

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

RECEIVED K-6600

10. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>				7. Unit Agreement Name Nash Unit	
b. TYPE OF COMPLETION NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input type="checkbox"/> <b>O.C.E. ARTESIA, OFFSHORE</b>				8. Farm or Lease Name Nash Unit	
2. Name of Operator Mesa Petroleum Co. ✓				9. Well No. 1	
3. Address of Operator 904 Gihls Tower West, Midland, Texas 79701				10. Field and Pool, or Wildcat Wildcat	
4. Location of Well UNIT LETTER <u>H</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>13</u> TWP. <u>23S</u> RGE. <u>29E</u> NMPM <u>Lea</u>				12. County Lea	
15. Date Spudded 7-25-74	16. Date T.D. Reached 12-3-74	17. Date Compl. (Ready to Prod.) 1-20-75	18. Elevations (DF, RKB, RT, GR, etc.) 3005 GR 3024' RKB	19. Elev. Casinghead 3005' GR	
20. Total Depth 13,850'	21. Plug Back T.D. 13,672'	22. If Multiple Compl., How Many 2	23. Intervals Drilled By Rotary Tools All	25. Was Directional Survey Made No	
24. Producing Interval(s), of this completion — Top, Bottom, Name 13,175'-13,609' (Morrow)				27. Was Well Cored No	
26. Type Electric and Other Logs Run GR-BHCS, Dual LL					
28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16	65	300	20"	225 TLW + 100 "C" + 50 "C"	----
10 3/4	40.5	3325	15"	1113 LD + 200 "C" + 315	----
7 5/8	26.4 - 39.0	10,908	9 1/2"	600 HLW + 200 "H" followed by 550 HLW + 100 "H"	----
29. LINER RECORD			30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	PACKER SET
5"	10,551	10,845	650	--	12,596
31. Perforation Record (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
13,175'-184'			DEPTH INTERVAL		
13,334'-339'			AMOUNT AND KIND MATERIAL USED		
13,341'-352' All were 1 JSPF w/0.28 diameter			13,175-609' 5000 gal 7 1/2% MS		
13,434'-442'					
13,607'-609'					
33. PRODUCTION					
Date First Production 6-4-75		Production Method (Flowing, gas lift, pumping — Size and type pump) Flowing		Well Status (Prod. or Shut-in) Prod.	
Date of Test 6-26-75	Hours Tested 24	Choke Size	Prod'n. For Test Period →	Oil — Bbl. 5	Gas — MCF 3100
Flow Tubing Press. 2800	Casing Pressure 1325	Calculated 24-Hour Rate →	Oil — Bbl. 5	Gas — MCF 3100	Water — Bbl. 2
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold				Test Witnessed By B. Jacobs	
35. List of Attachments Deviation survey, packer setting report.					
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 <u>Michael P. Horston</u>		TITLE <u>Division Engineer</u>		DATE <u>July 1, 1975</u>	

# 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 <u>12,136</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>12,261</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates _____	T. Miss <u>13,766</u>	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	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 <u>6954</u>	T. Wingate _____	T. _____
T. Wolfcamp <u>10,222</u>	T. <u>2nd bone springs 8808</u>	T. Chinle _____	T. _____
T. Penn. _____	T. <u>3rd " " 9874</u>	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. <u>Delaware 3233</u>	T. Penn. "A" _____	T. _____

### FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	300		Surface sands and shale				
300	3400		Anhydrite, salt & lime				
3400	4702		Sand, lime & shale				
4702	4970		Sand - Deleware				
4970	6910		Sand, lime & shale				
6910	8990		Lime & shale				
8990	10,790		Lime, sand & shale				
10,790	12,100		Shale & lime				
12,100	12,200		Lime - Strawn				
12,200	12,640		Lime & Shale				
12,640	12,680		Sand - Morrow				
12,680	13,310		Lime, chert & shale				
13,310	13,850		Sand, lime & shale				

WELL NAME AND NUMBER Nash Unit #1

LOCATION 660' FEL & 1930 ENL, Section 13, T-23-S, R-29-E, Eddy County, N., Mex.  
(New Mexico give U, S, T & R; Texas give S, Blk., Sur. & Twp. when required)

OPERATOR Mesa Petroleum Company

DRILLING CONTRACTOR McVay Drilling Company

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
<u>1° 140</u>	<u>1 1/2° 3735</u>	<u>1 1/2° 8720</u>	<u>1/2° 13024</u>
<u>1/2° 467</u>	<u>1 1/2° 4250</u>	<u>1 1/2° 9300</u>	<u>1° 13485</u>
<u>1/2° 744</u>	<u>1° 4482</u>	<u>1 1/2° 9550</u>	
<u>1/2° 1026</u>	<u>1/2° 4794</u>	<u>1° 9896</u>	
<u>1/2° 1285</u>	<u>1/2° 5124</u>	<u>3/4° 10160</u>	
<u>1/2° 1592</u>	<u>1/2° 5320</u>	<u>3/4° 10677</u>	
<u>1/2° 1870</u>	<u>3/4° 5726</u>	<u>1/2° 10900</u>	
<u>3/4° 2000</u>	<u>1/2° 5300</u>	<u>1° 11373</u>	
<u>1° 2350</u>	<u>1° 6321</u>	<u>1° 11530</u>	
<u>1 3/4° 2635</u>	<u>1° 6941</u>	<u>1° 11750</u>	
<u>2 3/4° 2863</u>	<u>1° 7328</u>	<u>1 1/2° 11845</u>	<b>RECEIVED</b>
<u>3 1/2° 3018</u>	<u>3/4° 7812</u>	<u>1/2° 12176</u>	<u>JUL 7 1975</u>
<u>2 1/2° 3200</u>	<u>3/4° 8058</u>	<u>1 1/2° 12580</u>	<u>O. C. C.</u>
<u>1 1/2° 3470</u>	<u>1° 8304</u>	<u>1° 12870</u>	<u>ARTESIA OFFICE</u>

Drilling Contractor McVay Drilling Company

By Joe Rhyer Jr.

Subscribed and sworn to before me this 6th day of June, 1975

My Commission Expires:

April 28, 1979

Connie Hornback  
Notary Public  
Lea County, New Mexico

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NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
Supersedes Old C-104 and C-110  
Effective 1-1-65

RECEIVED

JUN 6 1975

Operator Mesa Petroleum Co. ✓		O. C. C. ARTESIA, OFFICE	
Address 904 Gihls Tower West, Midland, Texas 79701			
Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well	<input checked="" type="checkbox"/>	Change in Transporter of:	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>
		Dry Gas	<input type="checkbox"/>
		Condensate	<input type="checkbox"/>

If change of ownership give name  
and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name Nash Unit	Well No. 1	Pool Name, Including Formation Wildcat - Morrow	Kind of Lease State, Federal or Fee	State
Location Unit Letter <u>H</u> ; <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line of Section <u>13</u> , Township <u>23S</u> Range <u>29E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)	
Transwestern Gas Supply Co.	P.O. Box 2521, Houston, Texas 77001	
If well produces oil or liquids, give location of tanks.	Unit	Sec.
	Twp.	Rge.
	Is gas actually connected?	When
	Yes	May 28, 1975

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

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'tv.	Diff. Res'tv.
		X	X					
Date Spudded 7-25-74	Date Compl. Ready to Prod. 1-20-75		Total Depth 13,850'		P.B.T.D. 13,672'			
Pool Wildcat	Name of Producing Formation Morrow		Top Oil/Gas Pay 13,175'		Tubing Depth 12,595'			
Perforations 13,175'-184', 13,334'-339', 13,341'-352', 13,434'-442', 13,607'-609'					Depth Casing Shoe 13,845'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
20	16		300		225 + 100 + 50			
15	10 3/4		3325		1113 + 200 + 315			
9 1/2	7 5/8		10,908		600+200+550+100			
6 1/2	5		13,845		650			

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D CAOF 3919 (1-22-75)	Length of Test 4 hrs	Bbls. Condensate/MMCF None recovered	Gravity of Condensate None recovered
Testing Method (pilot, back pr.) Back pressure	Tubing Pressure Flowing BHP @ perfs=3581	Casing Pressure Pkr	Choke Size 11/64

VI. CERTIFICATE OF COMPLIANCE

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

Michael P. Monster  
(Signature)

Division Engineer  
(Title)

June 4, 1975  
(Date)

OIL CONSERVATION COMMISSION

JUN 17 1975

APPROVED \_\_\_\_\_, 19

BY W. A. Gussert  
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 Sections I, II, III, and VI only 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.

xc-4 NMDEC, 2-USGS, 1-RHN, 1-JLF, 1-LMC,

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. DRAWER "DD"

ARTESIA, NEW MEXICO 88210

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JUN 4 1975

O. C. C.  
ARTESIA, OFFICE

AIR MAIL

NOTICE OF GAS CONNECTION

DATE May 30, 1975

This is to notify the Oil Conservation Commission that connection  
for the purchase of gas from the Mesa Petroleum Co. Nash Unit  
Operator Lease  
Well #1 - Unit Letter\* H. 13-23S-29E "Wildcat" Transwestern  
Well Unit S.T.R. Pool Name of purchaser  
\* Unknown Eddy County (~~Strawn~~ & Morrow)  
was made on May 28, 1975

Transwestern Pipeline Company



H. N. Aicklen

Representative

Supervisor Gas Purchase Contract Administration  
Title

cc: Operator  
Oil Conservation Commission - Santa Fe

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

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JUN 4 1975

5a. Indicate Type of Lease	State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.	K-6600

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT LOCATION. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. C.C.C. ARTESIA, OFFICE	
2. Name of Operator: Mesa Petroleum Co. ✓		7. Unit Agreement Name Nash Unit	
3. Address of Operator: 904 Gihls Tower West, Midland, Texas 79701		8. Farm or Lease Name Nash Unit	
4. Location of Well: UNIT LETTER <u>H</u> <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>East</u> LINE, SECTION <u>13</u> TOWNSHIP <u>23S</u> RANGE <u>29E</u> NMPM.		9. Well No. 1	
10. Field and Pool, or Wildcat Wildcat			
15. Elevation (Show whether DF, RT, GR, etc.) 3005 Gr 3024 RKB		12. County Eddy	

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/> Dual completion operations

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Unable to get Strawn and Morrow zones separated due to mechanical problems. Killed well on 5-4-75 with mud and pulled tubing. Found hole in joint of tubing opposite Strawn perfs - abrasives from Strawn formation had eroded hole due to high velocity. Installed heavy wall blast joints and re-ran tbg with no other changes. Produced well to clean up and attempted to run crossover assembly to Strawn packer. Tested crossover but crossover plugged with mud. Attempted unsuccessfully to separate Morrow and Strawn zones with various crossover and straight-thru assemblies. Killed well with brine (BHP 5415 psi) on 5-29-75 and pulled tubing. Blast joints showed slight signs of wear (opposite Strawn perfs). No holes were found. The permanent packer and/or seal bore was suspected of allowing communication between the Strawn and Morrow formation. To eliminate this problem it was decided to run a retrievable packer with an on-off tool to approximately 12,600'. The packer would be used to separate the Morrow and Strawn zones. The Strawn would be produced up the annulus while the Morrow would remain in the tubing. A sliding sleeve was to be run near the bottom to permit taking BHP's in the Strawn. Also, the Strawn could be produced up the tubing after a plug is set over the Morrow. The above was discussed with Dan Nutter on 5-30-75 and he voiced approval. The Strawn zone was re-perforated from 12,138-12,150', with 2 JSPF, to reduce the velocity of the Strawn abrasives. Afterwards, the previously mentioned work was performed. The well is presently being cleaned up.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Michael P. Horvath TITLE Division Engineer DATE June 3, 1975  
APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE JUN 17 1975  
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NEW MEXICO OIL CONSERVATION COMMISSION

MAY 5 1975

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
K-6600

O. C. C.

ARTESIA OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator	Nash Unit
3. Address of Operator	8. Farm or Lease Name
904 Gihls Tower West, Midland, Texas 79701	Nash Unit
4. Location of Well	9. Well No.
UNIT LETTER H 1980 FEET FROM THE North LINE AND 660 FEET FROM	1
THE East LINE, SECTION 13 TOWNSHIP 23S RANGE 29E NMPM.	10. Field and Pool, or Wildcat
	Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
3005 GR 3024 RKB	Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐  
OTHER ☐

PLUG AND ABANDON ☐  
CHANGE PLANS ☐  
☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐  
COMMENCE DRILLING OPNS. ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER Dual completion operations ☒

ALTERING CASING ☐  
PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Acidized Morrow perfs 13,175'---13,609' with 5000 gals of 7½% MS acid with nitrogen in 5 equal stages on 1-14-75. Treating pressures were 9500 psi max, avg 8000 psi, with 5.6 BPM rate. Flowed well to clean up and ran 4 point test, CAOF from Morrow 3,919 MCF/D. NMOCC order # R-4982 authorized dual completion (Morrow and Strawn with Strawn zone being crossed over to tubing since DST indicated more water and condensate production than the Morrow). Two plugs were set in the Otis "WB" packer at 13,100' and service unit rigged up. After loading hole with 12# mud, tubing was pulled. Ran retrievable BP to 12,313' & set pkr at 12,053'. Perforated Strawn formation from 12,138'-150'. Formation yielded estimated 3 MMCF and undetermined small amount of water on test. On March 12, 1975, acidized Strawn perfs 12,138'-150' with 2500 gals 15% with nitrogen, max 7100 psi, avg 6000 psi with 4.5 BPM rate. Well cleaned up making estimated 6 MMCF with slugs of water. Killed well, pulled packer and bridge plug then ran completion string. Displaced casing and tbg with 10# brine. Had difficulty pulling upper plug out of permanent packer. Had to wash down to plug with 1" coiled tubing before pulling plug out of packer. Unable to get crossover choke to seal in Strawn packer. Will have to pull tubing to check for mechanical problems.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Michael P. Horston TITLE Division Engineer DATE May 2, 1975

APPROVED BY W. O. Gressett TITLE SUPERVISOR, DISTRICT II DATE MAY 9 1975

CONDITIONS OF APPROVAL, IF ANY:

5-177-2221-4-1-121-1000-1-2-1000-1-3-1000-1-4-1000-1-5-1000-1-6-1000-1-7-1000-1-8-1000-1-9-1000-1-10-1000-1-11-1000-1-12-1000-1-13-1000-1-14-1000-1-15-1000-1-16-1000-1-17-1000-1-18-1000-1-19-1000-1-20-1000-1-21-1000-1-22-1000-1-23-1000-1-24-1000-1-25-1000-1-26-1000-1-27-1000-1-28-1000-1-29-1000-1-30-1000-1-31-1000-1-32-1000-1-33-1000-1-34-1000-1-35-1000-1-36-1000-1-37-1000-1-38-1000-1-39-1000-1-40-1000-1-41-1000-1-42-1000-1-43-1000-1-44-1000-1-45-1000-1-46-1000-1-47-1000-1-48-1000-1-49-1000-1-50-1000-1-51-1000-1-52-1000-1-53-1000-1-54-1000-1-55-1000-1-56-1000-1-57-1000-1-58-1000-1-59-1000-1-60-1000-1-61-1000-1-62-1000-1-63-1000-1-64-1000-1-65-1000-1-66-1000-1-67-1000-1-68-1000-1-69-1000-1-70-1000-1-71-1000-1-72-1000-1-73-1000-1-74-1000-1-75-1000-1-76-1000-1-77-1000-1-78-1000-1-79-1000-1-80-1000-1-81-1000-1-82-1000-1-83-1000-1-84-1000-1-85-1000-1-86-1000-1-87-1000-1-88-1000-1-89-1000-1-90-1000-1-91-1000-1-92-1000-1-93-1000-1-94-1000-1-95-1000-1-96-1000-1-97-1000-1-98-1000-1-99-1000-1-100-1000-1-101-1000-1-102-1000-1-103-1000-1-104-1000-1-105-1000-1-106-1000-1-107-1000-1-108-1000-1-109-1000-1-110-1000-1-111-1000-1-112-1000-1-113-1000-1-114-1000-1-115-1000-1-116-1000-1-117-1000-1-118-1000-1-119-1000-1-120-1000-1-121-1000-1-122-1000-1-123-1000-1-124-1000-1-125-1000-1-126-1000-1-127-1000-1-128-1000-1-129-1000-1-130-1000-1-131-1000-1-132-1000-1-133-1000-1-134-1000-1-135-1000-1-136-1000-1-137-1000-1-138-1000-1-139-1000-1-140-1000-1-141-1000-1-142-1000-1-143-1000-1-144-1000-1-145-1000-1-146-1000-1-147-1000-1-148-1000-1-149-1000-1-150-1000-1-151-1000-1-152-1000-1-153-1000-1-154-1000-1-155-1000-1-156-1000-1-157-1000-1-158-1000-1-159-1000-1-160-1000-1-161-1000-1-162-1000-1-163-1000-1-164-1000-1-165-1000-1-166-1000-1-167-1000-1-168-1000-1-169-1000-1-170-1000-1-171-1000-1-172-1000-1-173-1000-1-174-1000-1-175-1000-1-176-1000-1-177-1000-1-178-1000-1-179-1000-1-180-1000-1-181-1000-1-182-1000-1-183-1000-1-184-1000-1-185-1000-1-186-1000-1-187-1000-1-188-1000-1-189-1000-1-190-1000-1-191-1000-1-192-1000-1-193-1000-1-194-1000-1-195-1000-1-196-1000-1-197-1000-1-198-1000-1-199-1000-1-200-1000-1-201-1000-1-202-1000-1-203-1000-1-204-1000-1-205-1000-1-206-1000-1-207-1000-1-208-1000-1-209-1000-1-210-1000-1-211-1000-1-212-1000-1-213-1000-1-214-1000-1-215-1000-1-216-1000-1-217-1000-1-218-1000-1-219-1000-1-220-1000-1-221-1000-1-222-1000-1-223-1000-1-224-1000-1-225-1000-1-226-1000-1-227-1000-1-228-1000-1-229-1000-1-230-1000-1-231-1000-1-232-1000-1-233-1000-1-234-1000-1-235-1000-1-236-1000-1-237-1000-1-238-1000-1-239-1000-1-240-1000-1-241-1000-1-242-1000-1-243-1000-1-244-1000-1-245-1000-1-246-1000-1-247-1000-1-248-1000-1-249-1000-1-250-1000-1-251-1000-1-252-1000-1-253-1000-1-254-1000-1-255-1000-1-256-1000-1-257-1000-1-258-1000-1-259-1000-1-260-1000-1-261-1000-1-262-1000-1-263-1000-1-264-1000-1-265-1000-1-266-1000-1-267-1000-1-268-1000-1-269-1000-1-270-1000-1-271-1000-1-272-1000-1-273-1000-1-274-1000-1-275-1000-1-276-1000-1-277-1000-1-278-1000-1-279-1000-1-280-1000-1-281-1000-1-282-1000-1-283-1000-1-284-1000-1-285-1000-1-286-1000-1-287-1000-1-288-1000-1-289-1000-1-290-1000-1-291-1000-1-292-1000-1-293-1000-1-294-1000-1-295-1000-1-296-1000-1-297-1000-1-298-1000-1-299-1000-1-300-1000-1-301-1000-1-302-1000-1-303-1000-1-304-1000-1-305-1000-1-306-1000-1-307-1000-1-308-1000-1-309-1000-1-310-1000-1-311-1000-1-312-1000-1-313-1000-1-314-1000-1-315-1000-1-316-1000-1-317-1000-1-318-1000-1-319-1000-1-320-1000-1-321-1000-1-322-1000-1-323-1000-1-324-1000-1-325-1000-1-326-1000-1-327-1000-1-328-1000-1-329-1000-1-330-1000-1-331-1000-1-332-1000-1-333-1000-1-334-1000-1-335-1000-1-336-1000-1-337-1000-1-338-1000-1-339-1000-1-340-1000-1-341-1000-1-342-1000-1-343-1000-1-344-1000-1-345-1000-1-346-1000-1-347-1000-1-348-1000-1-349-1000-1-350-1000-1-351-1000-1-352-1000-1-353-1000-1-354-1000-1-355-1000-1-356-1000-1-357-1000-1-358-1000-1-359-1000-1-360-1000-1-361-1000-1-362-1000-1-363-1000-1-364-1000-1-365-1000-1-366-1000-1-367-1000-1-368-1000-1-369-1000-1-370-1000-1-371-1000-1-372-1000-1-373-1000-1-374-1000-1-375-1000-1-376-1000-1-377-1000-1-378-1000-1-379-1000-1-380-1000-1-381-1000-1-382-1000-1-383-1000-1-384-1000-1-385-1000-1-386-1000-1-387-1000-1-388-1000-1-389-1000-1-390-1000-1-391-1000-1-392-1000-1-393-1000-1-394-1000-1-395-1000-1-396-1000-1-397-1000-1-398-1000-1-399-1000-1-400-1000-1-401-1000-1-402-1000-1-403-1000-1-404-1000-1-405-1000-1-406-1000-1-407-1000-1-408-1000-1-409-1000-1-410-1000-1-411-1000-1-412-1000-1-413-1000-1-414-1000-1-415-1000-1-416-1000-1-417-1000-1-418-1000-1-419-1000-1-420-1000-1-421-1000-1-422-1000-1-423-1000-1-424-1000-1-425-1000-1-426-1000-1-427-1000-1-428-1000-1-429-1000-1-430-1000-1-431-1000-1-432-1000-1-433-1000-1-434-1000-1-435-1000-1-436-1000-1-437-1000-1-438-1000-1-439-1000-1-440-1000-1-441-1000-1-442-1000-1-443-1000-1-444-1000-1-445-1000-1-446-1000-1-447-1000-1-448-1000-1-449-1000-1-450-1000-1-451-1000-1-452-1000-1-453-1000-1-454-1000-1-455-1000-1-456-1000-1-457-1000-1-458-1000-1-459-1000-1-460-1000-1-461-1000-1-462-1000-1-463-1000-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1000-1-919-1000-1-920-1000-1-921-1000-1-922-1000-1-923-10

Copy to SF  
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C-122

Type Test: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date: 12-22-75		MAY 5 1975	
Company: MESA PETROLEUM COMPANY ✓				Connection: TO AIR		Unit: D.C.C.	
Pool: WILDCAT				Formation: MORROW		Unit: ARTECIA, OFFICE	
Completion Date: 1-9-75		Total Depth: 13,850'		Plug Back TD: 13,675'		Elevation: 3004.8 GR.	
Csg. Size: 5" LIN.		Wt.: 23.2#		Perforations: From 13,175' To 13,609'		Well No.: 1	
Tub. Size: 2 7/8"		Wt.: 7.9#		Perforations: From OPEN To ENDED		Unit: H Soc. 13 Twp. 23S Rge. 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At: 13,100'		County: EDDY	
Producing Thru: TUBING		Reservoir Temp. °F: 208° @ 13,392'		Mean Annual Temp. °F: 60°		Baro. Press. - P <sub>a</sub> : 13.2	
L: 13392		H: 13392		G <sub>g</sub> : 0.580		% CO <sub>2</sub> : 1.07	
				% N <sub>2</sub> : 0.30		% H <sub>2</sub> S: -0-	
				Prover		Meter Run: 4"	
						Taps: FLANGE	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI	(3.826" I.O.)						4420.0		PACKER	CHOKE	
1.	4"	X	1.750"	315.0	4.0	79	3377.0	60		6/64"	60 MIN.
2.	4"	X	1.750"	320.0	10.5	86	3024.0	61		7/64"	60 MIN.
3.	4"	X	1.750"	320.0	19.0	88	2848.0	64		9/64"	60 MIN.
4.	4"	X	1.750"	325.0	42.5	89	2487.0	63		11/64"	60 MIN.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd
1	15.01	36.23	328.2	.9822	1.313	1.024	718
2	15.01	59.15	333.2	.9759	1.313	1.022	1163
3	15.01	79.57	333.2	.9741	1.313	1.022	1561
4	15.01	119.89	338.2	.9732	1.313	1.022	2350
5							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	TSTM	
1.	0.49	539	1.54	.954	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
2.	0.49	546	1.56	.957	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
3.	0.49	548	1.57	.958	Specific Gravity Separator Gas	0.580
4.	0.50	549	1.57	.957	Specific Gravity Flowing Fluid	X X X X X
5.					Critical Pressure	676 P.S.I.A.
					Critical Temperature	349 R

NO.	P <sub>r</sub>	P <sub>s</sub>	P <sub>r</sub> <sup>2</sup>	P <sub>s</sub> <sup>2</sup>	P <sub>r</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup>
1	11493	4504.2	20288	11977	
2	9334	4197.2	17616	14649	
3	8186	3999.2	15994	16271	
4	6251	3594.2	12918	19347	
5					

(1)  $\frac{P_r^2}{P_r^2 - P_s^2} = 1.6677$

(2)  $\left[ \frac{P_r^2}{P_r^2 - P_s^2} \right]^n = 1.6677$

AOF = Q  $\left[ \frac{P_r^2}{P_r^2 - P_s^2} \right]^n = 3919$

posted 5-4-75

Absolute Open Flow: 3919 Mcfd @ 15.025		Angle of Slope: 45.0°		Slope, n 1.000 LIMIT	
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Remarks: POINT ALIGNMENT BUT IN EXCESS OF 1.000  
BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 13392'

Approved By Commission:	Conducted By: D. TYSON	Calculated By: R. WEST	Checked By: J.W.W.
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MAY 5 1975

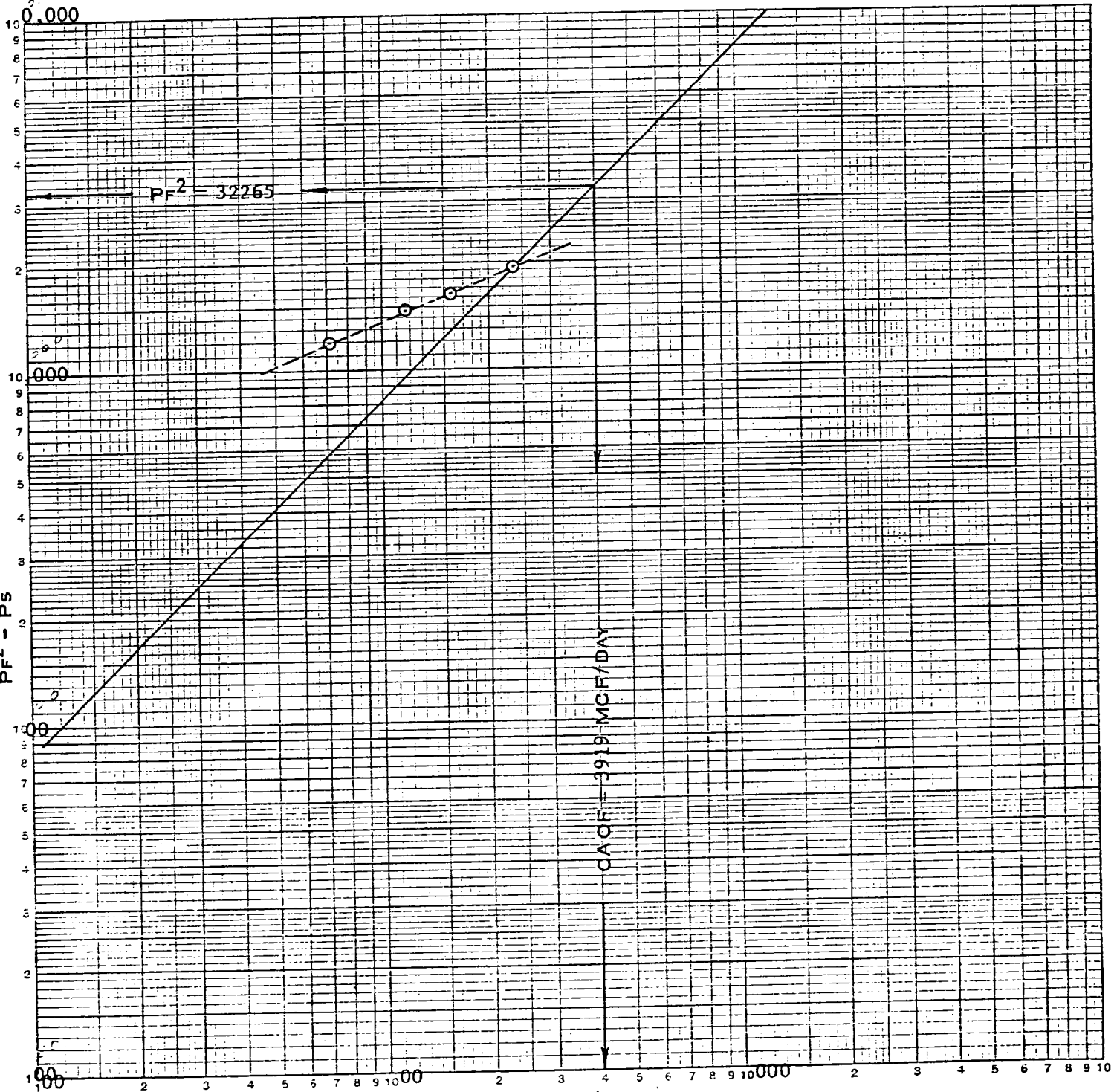
O. C. C.  
ARTEBIA, OFFICE

LOGANTHMIC  
3 X 3 CYCLES  
KEUFFEL & ESSER CO.

45 7400

PAID IN U. S. A.

$PF^2 - PS^2$



ABS. SLOPE (N) = 1.000 LIMITED

Q = MCF/DAY

CAOF = 2350  $\left( \frac{32265}{19347} \right) = 3919$  MCF/DAY

MESA PETROLEUM COMPANY  
 NASH UNIT #1  
 4-POINT PRESSURE TEST  
 TABULATION OF PRESSURE & TIME

TEST CONDUCTED BY:  
 JOHN WEST ENGINEERING COMPANY

TEST DATE: JANUARY 22, 1975  
 TEST DEPTH: 13,392 FEET  
 ELEMENT No.: 7542-N 0-6950#  
 CLOCK No.: 4052 0-12 HOURS  
 OPER.: D. TYSON

<u>DATE</u>	<u>TIME</u>	<u>CUM. HR./MIN.</u>	<u>P.S.I.G. @ 13,392 FEET</u>
1-22-75	11:20 A.M.	00 HR. 00 MIN.	5667 GAUGE @ 13392'
	11:40	00 20	5667 OPEN CHOKE
	12:00 Noon	00 40	5518
	12:30 P.M.	01 10	5131 BEGIN RATE #1
		01 25	4848
		01 40	4664
		01 55	4534
	1:30 P.M.	02 10	4491 END RATE #1
	1:45	02 25	4336 RATE # 2
		02 40	4223
		02 55	4184
	2:30	03 10	4184 END RATE #2
	2:45	03 25	4035 RATE #3
		03 40	3982
		03 55	3975
	3:30	04 10	3986 END RATE #3
	3:45	04 25	3736 RATE #4
		04 40	3627
		04 55	3592
	4:30	05 10	3581 END RATE #4 SHUT-IN
1-22-75	4:35	05 15	3915 OFF BOTTOM

RECEIVED

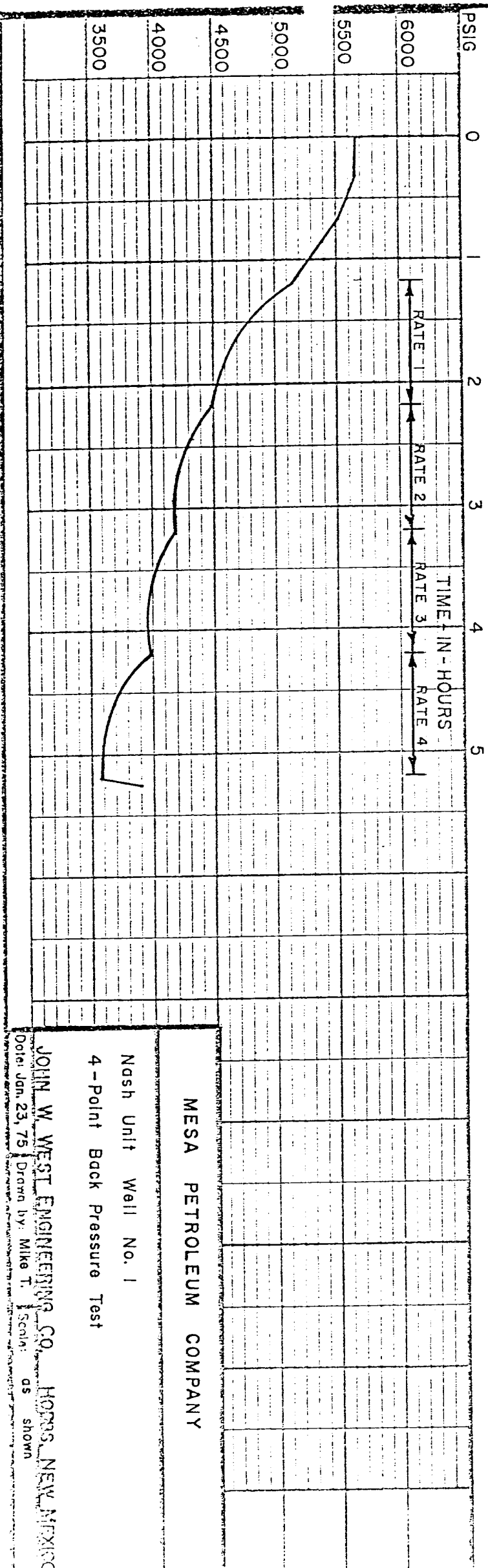
TEST DATE: JANUARY 22, 1975  
TEST DEPTH: 13,392 FEET

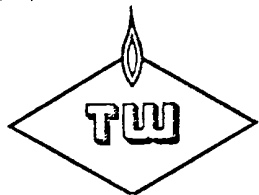
ELEMENT No.: 7542-N  
RANGE: 0-6950#

CLOCK No.: 4052  
RANGE: 0-12 HOURS

TEST OPERATOR: D. TYSON

NOTE: SEE ATTACHED SHEET FOR TABULATION OF PRESSURE AND TIME.





## GAS QUALITY TEST REPORT

COMPANY SELLER MESA PET. Co. STA. NO. \_\_\_\_\_  
FIELD OR LOCATION WILDCAT CONTRACT NO. \_\_\_\_\_  
SOURCE OR RESERVOIR MORROW TEST DATE 1 22 21  
WELL OR STATION NAME NASH UNIT #1 H. 13-23-24 LAB 4

COMPOUND COMPONENTS	COMPONENT SPECIFIC GRAVITY	COMPONENT MOLE FRACTION	LIQUEFIABLE HYDROCARBONS	COMPONENT G. P. M.	MOLE FRACTION	G. P. M. CONTENT
NITROGEN	.9672	.0030	PROPANE	27.514	.	
CARBON DIOXIDE	1.5195	.0107	ISO-BUTANE	32.698	.	
HELIUM	.1382	.0001	N-BUTANE	31.510	.	
OXYGEN	1.1048	—	LPG —————			
HYDROGEN SULFIDE	1.1766	—	ISO-PENTANE	36.582	.	
WATER VAPOR	.6220	—	N-PENTANE	36.213	.	
HYDROCARBON DILUENTS		(.0138)	HEXANES	41.111	.	
METHANE	.5539	.9620	HEPTANES +	46.126	.	
ETHANE	1.0382	.0201	NATURAL GASOLINE —————			
PROPANE	1.5225	.0027	TOTAL LIQUEFIABLE GPM			
ISO-BUTANE	2.0068	.0004	WATER VAPOR CONTENT:			
N-BUTANE	2.0068	.0004	Gas Mixture Static Pressure PSI _____			
ISO-PENTANE	2.4910	.0003	Hydrocarbon Dew Point °F _____			
N-PENTANE	2.4910	.0001	Water Vapor Dew Point °F _____			
HEXANES	2.9753	.0001	Lbs Water Vapor per MMCF _____			
HEPTANES +	3.7018	.0001	Conversion Constant <u>X 0.000021</u>			
COMPOSITION ————— 1.0000			Water Vapor Mole Fraction _____			
MIXTURE SPECIFIC GRAVITY:			Moisture recorder reading _____			
Calculated From Analysis		.580	Make or type _____			
Determined by Test Instrument		.584	SULFUR CONTENT: <u>MSA = No Trace</u>			
Instrument Make or Type		<u>PANARGL</u>	H <sub>2</sub> S — Hydrogen Sulfide, Gr./100 cf _____			
MIXTURE HEATING VALUE:			RSH — Mercaptans " _____			
(Btu/cf at 14.73 Psia, 60°F, Sat.)			RSR — Sulfides " _____			
Calculated From Analysis		1006	RSSR — Residuals " _____			
Determined by Calorimeter			Total Sulfur, Gr./100 cf _____			
Calorimeter Verified ( )			H <sub>2</sub> S Grains to fraction conversion <u>X 0.0000157</u>			
REMARKS			H <sub>2</sub> S Mole Fraction _____			
MEASUREMENT AREA			Critical Pressure <u>677</u> Critical Temperature <u>357</u>			
GAS ANALYST						

REMARKS

4 POINT WELL TEST ANALYSIS

MEASUREMENT  
AREA

Rosen

GAS  
ANALYST

ALSTON