

Permit #: 20001
County: Caldwell
CONFIDENTIAL UNTIL: _____

Date Issued: 8-9-73
Date Cancelled: _____
Date Plugged: _____

COMMENTS:
Ferrell Gas (Bob gas)

OCC FORMS	Date Received
1	7-5-73
2	
3	7-5-73
3i	
4	7-5-73
4i	
5	3-1-74
6	
7	
8	
11	
12	
Misc. Form 2	

	TYPE	ID #	Date Received
Logs	<u>Drillers log</u>		<u>3-18-74</u>
Samples	chip core		
	water		
Analyses	core		

Additional Submitted Data:

MISSOURI OIL AND GAS COUNCIL

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR Polo Gas Service, Inc. DATE June 19, 1973
Box 137 Kearney, Missouri
 Address City State

DESCRIPTION OF WELL AND LEASE	
Lena Marie Herod No. 1	
Name of lease	Well number <u>31</u> Elevation (ground) <u>T-55N R-28W 140A</u>
Well location (give footage from section lines)	Section — township — range or block & survey
<u>All of NW 1/4 of Sec 31 North of RR right of way, all of NW 1/4 of the SW 1/4 of Sec 31 N. of RR right of way</u>	
Nearest distance from proposed location in property or lease line:	Distance from proposed location to nearest drilling, completed or applied — for well on the same lease:
<u>See Plat OGC-4</u>	feet <u>860 FT NW of original Thompson well</u> feet
Proposed depth:	Rotary or Cable tools
<u>425 Feet</u>	<u>Rotary</u>
	Approx. date work will start
	<u>July 1973</u>
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:
<u>140 A</u>	<u>2</u>
	Number of abandoned wells on lease: <u>0</u>
If lease, purchased with one or more wells drilled, from whom purchased:	Name Address
No. of Wells: abandoned <u>0</u> ; inactive <u>1</u> ; producing <u>0</u>	
Status of Bond	
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)	
Proposed casing setting depth:	To be filled in by State Geologist
Conductor: <u>3ft</u>	SAMPLES REQUIRED <input type="checkbox"/>
Surface: <u>90ft</u>	SAMPLES NOT REQUIRED <input type="checkbox"/>
Other: _____	
CERTIFICATE: I, the undersigned, state that I am the <u>President</u> of the <u>Polo Gas Service, Inc.</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.	
<u>Ed Hewitt</u>	
Signature	

Permit Number: 20001
 Approval Date: 9 August 1973
 Approved By: Wallace B. Hume

Note: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Remit two copies; one will be returned.

RECEIVED
 JUL 05 1973
 MISSOURI OIL & GAS COUNCIL

WELL LOCATION PLAT

Owner: Polo Gas Service, Inc.

Lease Name: Lena Marie Herod County, Caldwell

200 feet from (N) - (S) line and 225 feet from (E) - (W) line of Sec. 31 Twp. 55N Range 28W

†							
	x						

Original Plat
Not Approved by Council

REMARKS: _____

Registered Land Surveyor:

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JUL 05 1972
MO. OIL & GAS COUNCIL (SEAL)

MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

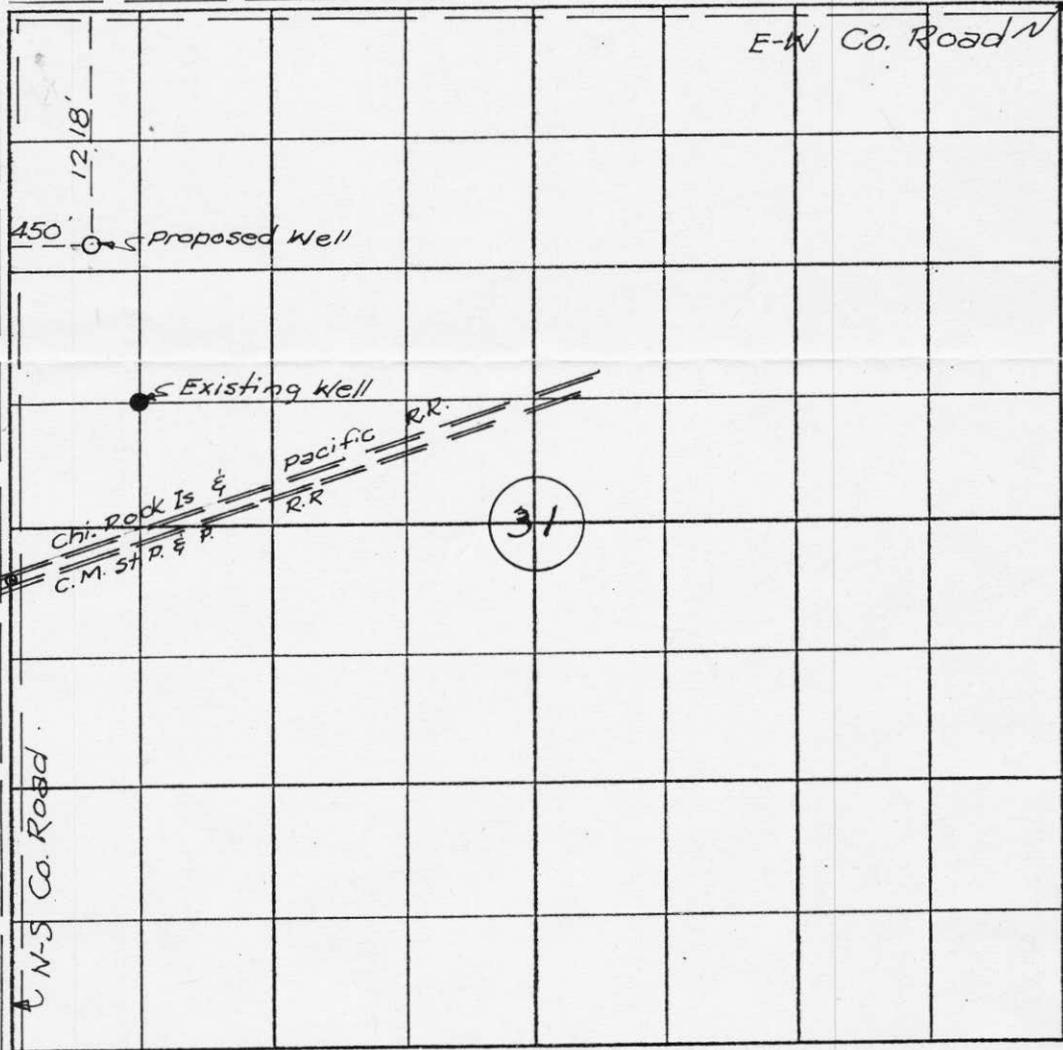
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AUG 08
MO. OIL & GAS COUNCIL
Form OGC - 4

Owner: Polo Gas Service, Inc.

Lease Name: Lena Marie Herod

County, CALDWELL

1210 feet from (N) - ~~1218~~ line and 450 feet from ~~121~~ (W) line of Sec. 31 Twp. 55N Range 28W



SCALE
1" = 1000'

REMARKS: The proposed well is approx. 860 feet N-NW of an existing well on the same lease (Herod Lease)

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

Remit two copies; one will be returned.

Fred A. Woods
Registered Land Surveyor

(SEAL)

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

Owner: **Ferrell Gas Company** Address: **Kearney, Missouri 64060**

Lease Name: **Lena Marie Herrod** Well Number: _____

Location: **NW/4 of 31 north of RR right of way** Sec. — TWP-Range or Block & Survey: **31 - 55N - 28W**

County: **Caldwell** Permit number (OGC3 number): _____

Date spudded: **Nov. 21, 1973** Date total depth reached: **Nov. 23, 1973** Date completed, ready to produce: **Nov. 25, 1973** Elevation (DF, RKB, RT or Gr.) feet: **1020** Elevation of casing hd. flange feet: **1023**

Total depth: **410** P. B. T. D.: _____

Producing interval (s) for this completion: **396 - 406** Rotary tools used (interval) From **0** to **410** Drilling Fluid used: **none** Cable tools used (interval) From _____ to _____

Was this well directionally drilled? **No** Was directional survey made? **No** Was copy of directional survey filed? _____ Date filed: _____

Type of electrical or other logs run (list logs filed with the State Geologist): **None** Date filed: _____

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor		12-5/8		3'	none	3'
Surface	7-7/8"	6-5/8"	13	78'	10	None

TUBING RECORD				LINER RECORD			
Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
2 in.	410 ft.	383 ft.	5-7/8 in.	383 ft.	387 ft.	30	

PERFORATION RECORD				ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD			
Number per ft.	Size & type	Depth Interval		Am't. & kind of material used	Depth Interval		
3	1/4" hole	388 to 395		None			

INITIAL PRODUCTION

Date of first production: _____ Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
11-23-73	1	2"	----- bbls.	223 MCF	----- bbls.	API (Corr)
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
20		555,000 c.ft.	----- bbls.	550 MCF	----- bbls.	

Disposition of gas (state whether vented, used for fuel or sold): **Sold**

Method of disposal of mud pit contents: **None used - drilled with air rotary**

CERTIFICATE: I, the undersigned, state that I am the **Geologist** of the **Cullum & Brown, Inc.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

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MAR 18 1974
MISSOURI OIL & GAS COUNCIL
MISSOURI OIL & GAS COUNCIL

[Signature]
Signature Contractor

WATER WELL RECORD

White: Driller's copy
 Blue: Mail to Missouri Geological Survey
 Pink: For well owner

DRILLERS LOG OF WELL

Kind of rock, color, hard, or soft etc.	From (ft.)	To (ft.)
Hole No. 1 - Well 1		
Clay	0	43
Sandy clay	43	73
Sandy	73	75
Lime	75	77
Slate, black	77	79
Shale	79	92
Lime	92	96
Shale	96	98
Lime	98	104
Shale	104	138
Lime	138	143
Shale	143	146
Lime	146	148
Shale	148	163
Lime	163	164
Shale	164	169
Lime	169	195
Shale	195	196
Slate, black	196	198
Shale	198	203
Lime	203	218
Shale	218	221
Slate, black	221	222

IMPORTANT DATA

Location of Well _____ County Caldwell
 (Show location in Section Plat)

_____ 1/4 _____ 1/4 Sec. 31

T. 55 N, R. 28

Total depth 410' Elev. _____

Well Owner Ferrel Gas Company

Address Polo, Missouri

Mileage and direction from nearest town or highway _____

Drilling Contractor Cullum & Brown, Inc.

Address North Kansas City, Missouri

Date Drilled November, 1973

Method of Drilling rotary
 (Cable tool, rotary, reverse rotary, etc.)

Casing Schedule 78'-6"
 (Amount, Size, Setting - New, Used - Steel, Galv., - Gage or Weight)

410' - 2" packer

Screen Data (if any): Packer set 383' to 387'
 (Length, Diameter, Slot Size, Setting)

Measured depth to water on completed well (Static Level)

is _____ ft. below _____ (Land Surface, Top of Casing Etc.)

Tested Yield 555,000 cu. ft. per 24 hrs.
 gallons per _____ (Min., Hour)

as determined by _____ (Bailing, Test Pumping, Etc.)

Drawdown _____ ft. after _____ hrs

pumping at _____ gal. per minute

Remarks _____

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MAR 18 1974

OIL & GAS COUNCIL

White: Driller's copy
 Blue: Mail to Missouri Geological Survey
 Pink: For well owner

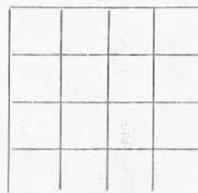
WATER WELL RECORD

DRILLERS LOG OF WELL

Kind of rock, color, hard, or soft etc.	From (ft.)	To (ft.)
Hole No. 1 - Well 1 (cont'd)		
Lime	222	224
Shale	224	226
Lime	226	229
Shale	229	230
Lime	230	235
Shale	235	244
Lime	244	248
Shale	248	252
Sandy shale (oil show)	252	261
Shale	261	286
Lime	286	287
Shale	287	332
Sandy shale (oil show)	332	346
Shale, red	346	353
Lime	353	354
Shale	354	365
Lime	365	369
Shale, red	369	371
Shale	371	374
Lime	374	375
Shale	375	383
Lime	383	387
Sand	387	395

IMPORTANT DATA

Location of Well County Caldwell
 (Show location in Section Plat)



_____ 1/4 _____ 1/4 Sec. 31
 T. 55 N, R. 28 W

Total depth 510' Elev. _____

Well Owner Ferrel Gas Company

Address Polo, Missouri

Mileage and direction from nearest town or highway _____

Drilling Contractor Cullum & Brown, Inc.

Address North Kansas City, Missouri

Date Drilled November, 1973

Method of Drilling rotary
 (Cable tool, rotary, reverse rotary, etc.)

Casing Schedule 78'-6 1/2"
 (Amount, Size, Setting - New, Used - Steel, Galv., - Gage or Weight)
410' - 2" w/packer

Screen Data (if any): Packer set 383' to 387'
 (Length, Diameter, Slot Size, Setting)

Measured depth to water on completed well (Static Level)
 is _____ ft. below _____
 (Land Surface, Top of Casing Etc.)

Tested Yield 555,000 cu. ft. per 24 hrs.
 gallons per _____ (Min., Hour)

as determined by U Tube
 (Bailing, Test Pumping, Etc.)

Drawdown _____ ft. after _____ hrs.

pumping at _____ gal. per minute

Remarks _____

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MAR 18 1974

OIL & GAS COUNCIL

