

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5135
Name: John O. Farmer, Inc.
Address P. O. Box 352

City/State/Zip Russell, KS 67665
Purchaser: _____
Operator Contact Person: Sam Farmer
Phone (913) -483-3144

Contractor: Name: Emphasis Oil Operations
License: 8241
Wellsite Geologist: Sam Farmer

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
Drilling Method:
 Mud Rotary Air Rotary Cable
12-11-90 12-17-90 1-8-91
Spud Date Date Reached TD Completion Date

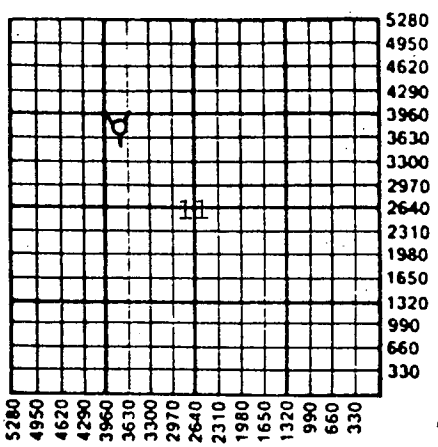
API NO. 15- 065-22,604
County Graham

Approx. C NW Sec. 11 Twp. 10S Rge. 21 East West
3740 Ft. North from Southeast Corner of Section
3640 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Miller Well # 13
Field Name Cooper
S.W.D. _____

Production Formation lower Arbuckle 4090-4110 (20')
Elevation: Ground 2252' KB 2257'
Total Depth 4327' PBTD _____

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1-11-1991
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Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 225 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1740 Feet
If Alternate II completion, cement circulated from 1740
feet depth to surface w/ 350 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature John O. Farmer III
Title President Date 1-10-91
Subscribed and sworn to before me this 10th day of January, 19 91.
Notary Public: Margaret A. Schulte
Date Commission Expires _____

NOTARY PUBLIC - State of Kansas
MARGARET A. SCHULTE
My Appt. Exp. 1-27-93

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC 1-11-91 SWD/Rep NGPA
 KGS Plug Other (Specify)

P1

SIDE TWO

Operator Name John O. Farmer, Inc. Lease Name Miller Well # 13
 East County Graham
 Sec. 11 Twp. 10S Rge. 21 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

Name	Formation Description	
	Top	Bottom
Anhydrite	1737'	(+520)
Base/Anhydrite	1775'	(+482)
Heebner	3473'	(-1216)
Toronto	3497'	(-1240)
Lansing	3515'	(-1258)
Conglomerate	3776'	(-1519)
Arbuckle	3807'	(-1550)
Granite Wash	4310'	(-2053)
R.T.D.	4327'	(-2070)

* COPY OF 12-20-90 DRILLERS LOG ATTACHED.

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	28#	225'	60-40 Pozmix	140	3% C.C., 2% gel
Production	7-7/8"	5-1/2"	15#	4322'	60-40 Pozmix	175	10% salt, 5% gilsonite
D.V. Tool				1740'	60-40 Pozmix	390	8% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4 SPF	4090-4110 (20')			2000 gal. 15% NE		4090-4110'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At	Packer At				
2-7/8"		3934'	3934'				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) S.W.D. Well						
	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio Gravity
Estimated Production Per 24 Hours							

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval: 4090-4110 (20')

This is a "lower" Arbuckle S.W.D. Well.

ORIGINAL

EMPHASIS OIL OPERATIONS

P. O. BOX 506

RUSSELL, KS 67665

DRILLERS LOG

OPERATOR: John O. Farmer, Inc.
P. O. Box 352
Russell, Kansas 67665

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Miller WELL #13

LOCATION: Approx. C NW
Section 11-10S-21W
Graham County, Kansas

ROTARY TOTAL DEPTH: 4327'

2257'

ELEVATION: ~~XXXX~~ K.B.

COMMENCED: 12/11/90

COMPLETED: 12/17/90

CASING: 8-5/8" @ 225' w/140 sks cement
5-1/2 @ ~~XXXX~~ w/175 sks cement (first stage)
4322' w/~~XXX~~ sks cement (second stage)
390 D.V. tool

STATUS: Disposal Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

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Dakota Sand	1098'	Heebner	3473'
Red Bed	1145'	Toronto	3497'
Cedar Hills	1223'	Lansing-Kansas City	3515'
Red Bed	1413'	Arbuckle	3807'
Anhydrite	1734'	R.T.D.	4327'
Shale	1775'		

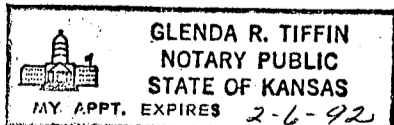
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

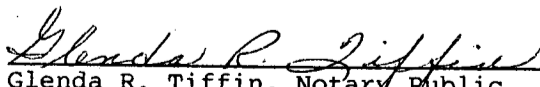
K. Scott Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


K. Scott Branum

Subscribed and sworn to before me on December 20, 1990.

My commission expires: February 6, 1992.




Glenda R. Tiffin, Notary Public

JOHN O. FARMER ORIGINAL DRILLING-IN AND COMPLETION REPORT

Well Miller #13 SWD Location 3740' FSL & 3640' FEL
Sec. 11-T10S-R21W Date 1-10-91

SURFACE CASING RECORD: 1. Size 8-5/8" 2. Weight 28# 3. Length 225'
4. Cement Used 140 sacks 60/40 Pozmix 5. Job By Allied Cementing

OIL STRING RECORD:

1. Size 5-1/2" New L/S, R3, LTC 8. No. and Depth of Scratchers none used
2. Weight 15-1/2# D & T 4400 psig
3. Where Purchased Fender Pipe & Supply 9. D. V. Tool Set 1740'
4. Total Depth of Hole 4327' 10. *Cement thru D. V. Tool 390 sacks Allied Lite
5. Shoe Depth 4322' (5' off bottom) 11. Cement Around Shoe 175 60/40 Pozmix
6. Float Depth 4301' 12. Cemented by Allied Cementing
7. No. & Depth of Centralizers (3) #1 @ 4301',
#2 @ 3826', #3 @ 1782' 13. Date and Hour Completed 12-17-90 11:15 p.m.
14. Zero Point 5' above ground
* Good returns on cement thru DV

DRILLING-IN RECORD:

1. Date Cable Tools Moved In 1-2-91 4. Found Top of Cement at D.V. @ 1740'
2. Contractor Plainville Well Service 5. Condition of Cement firm
3. Casing Leak Test ok - MIT test taken 1-2-91 6. Hole Cleaned Out At 4328'

CHRONOLOGICAL COMPLETION HISTORY:

Completion Date	Interval	Stimulation	Swab Test	Comments
<u>1-7-91</u>	<u>4090-4110 (20')</u>	<u>2000 gal. 15% NE</u>	<u>tested 120 B/H</u>	<u>injection rate</u>

STATE OF MISSISSIPPI
JAN 11 1991
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SUBSURFACE EQUIPMENT: (SWD well)

1. Tubing 2-7/8" PVC lined 6. Mud Anchor NA
2. No. of Joints 128 7. Pump Description NA
3. Distance of Bottom 394' 8. No. of Rods NA
4. No. and Size Pup Joints NA 9. Size NA
Packer
5. Perforations set @ 3934' 10. Pony Rods Used NA

Remarks: This well is a "lower" Arbuckle salt water disposal well. The Arbuckle perforations from 4090-4110' are 284 to 304' into the Arbuckle.

ORIGINAL

MILLER #13

Initial Completion ReportWednesday, January 2, 1991

Moved in and rigged up Plainville Well Service's double drum unit with power swivel and mud pump. Ran in tubing with 4-7/8" rotary bit. Drilled out D.V. tool @ 1740'.

Ran MIT test. Pressured casing to 350 PSIG for 15 minutes. Well passed MIT test. The state agent witnessing this test was Dennis L. Hamel.

Thursday, January 3, 1991

Drilled out guide shoe @ 4322'. Cleaned out to 4328'.

Monday, January 7, 1991

Ran Gamma Ray Neutron Electric Log. Jet perforated lower Arbuckle from 4090-4110 (20') with 4 shots per foot using deep penetrating jets. Treated perforations with 2000 gals. 15% NE @ 5 BPM. Instant shut-in pressure was a vacuum. Took injection rate test which showed 120 BPH on a strong vacuum.

Tuesday, January 8, 1991

Ran in 2-7/8" duo-lined tubing with a 2-1/2" x 5-1/2" packer. Loaded tubing-casing annulus with fresh water and corrosion inhibitor. Set packer @ 3934'.

Released Plainville Well Service's double drum unit.

for John D. Farmer III
Slim Eichman
Production Superintendent

SE/ms

STATE BOARD OF GEOLOGICAL COMMISSION

1-11-1991
JAN 11 1991CONSULTING DIVISION
Wagon, Kansas