

SIDE TWO

Operator Name Chief Drilling Co., Inc. Lease Name..... COBERLY "E" Well #..... 1
Sec..... 18..... Twp..... 15S..... Rge..... 28W..... ☐ East ☐ West County... GOVE.....

WELL LOG

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
Samples Sent to Geological Survey		☒ Yes ☐ No
Cores Taken		☐ Yes ☒ No
6-17-87	DST #1 3675-3704 (Lans. 35 zone) 30-30-45-45 strong bl off bottom in 15", Rec. 125' GIP, 10' HOCM, 70' C1 GO, 310' W, IBHP: 939# FBHP: 921# IFF: 71-98 FFP: 133-187	
6-18-87	DST #2 3705-3772 (Lans. 50 & 70 zone) 30-30-30-30 Very st bl throughout, Rec. 1200' W, chl. 60,000 ppm, IBHP: 1110# FBHP: 1092# IFF: 125-303 FFP: 375-500 DST #3 3850-3920 - Missrun, hit a bridge on the way in with tool @ 1400'	
6-19-87	DST #4 3850-3920 (Lans. 160 & 180 zones) 30-30-30-30 very st bl throughout, Rec. 630' HOCM, 83% O, 17% M, tr W, 510' HO&GCM, 85% O, 9% G, 6% M, tr W, 560' CGO, 36 gr. @ 60 deg. 180' W, 61,000 cc IBHP: 1038# FBHP: 1038# IFF: 241-571 FFP: 631-768, 1880' Total fluid	
6-20-87	DST #5 3908-3940 (Lans. 200 zone) 30-30-30-30, Rec. 95' CGO, 800' W, 62,000 cc IBHP: 939# FBHP: 939# IFF: 151-250 FFP: 375-491 DST #6 3943-3990 (Lans. 220 zone) 30-30-30-30 Very st bl throughout, Rec. 1890' W, 62,000 cc, IBHP: 1056# FBHP: 1056# IFF: 312-849 FFP: 894-1019	
6-21-87	DST #7 3997-4150 (Marmaton & Pawnee) 30-30-30-30, no blow, Rec. 20' M, IBHP: 419# FBHP: 303# IFF: 107-107 FFP: 107-107	
6-22-87	DST #8 4182-4270 (Cherokee) 30-30-30-30 wk blow throughout, Rec. 20' OCM, IBHP: 98# FBHP: 142# IFF: 71-71 FFP: 71-71	
6-23-87	Logging @ 4380' Ran 101 jts. 4022' used 10.5#, 4 1/2" csg. set @ 4027', Cem w/200 sks ASC, 20 bbls. mud flush ahead of cement. Centralizers @ 4016', 3940', 3857', 3722', combination centralizer basket @ 1933', Float @ 4016' Plug down @ 6:05 p.m.	

FORMATION TOPS:		E-LOG TOPS:	
Name	Top	Bottom	
Anhydrite	1931 + 571	Anhydrite	1932 + 570
Base Anhydr.	1969 + 533	Base Anhydr	1964 + 538
Heebner	3620 - 1118	Heebner	3618 - 1116
Toronto	3639 - 1137	Lansing	3655 - 1153
Lansing	3656 - 1154	Muncie Cr.	3820 - 1318
Muncie Cr.	3822 - 1320	Stark	3909 - 1407
Stark	3911 - 1409	Hush Puckney	3944 - 1442
Hush Puckney	3946 - 1444	BKC	3989 - 1487
BKC	3984 - 1482	Marmaton	4008 - 1506
Marmaton	3997 - 1495	Pawnee	4092 - 1590
Pawnee	4087 - 1585	Ft. Scott	4162 - 1660
Ft. Scott	4169 - 1667	Cherokee	4188 - 1686
Cherokee	4191 - 1689	Mississippi	4260 - 1758
Mississippi	4267 - 1765	LTD	4378 - 1876
RTD	4380 - 1878		

Well Log		
	Top	Bottom
Sand & Clay	0	65
Shale & Sand	65	1110
Shale	1110	1931
Anhydrite	1931	1969
Shale	1969	3822
Lime & Shale	3822	4169
Lime	4169	4380 RTD

CASING RECORD ☒ New ☐ 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"	20#	298'	60/40	180	2% gel. 3% cc
Production	7.7/8	4.1/2"	10.5#	4027'	ASC	200	20 bbls. mud flush ahead of cement

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2 sh. per	3891-3897		

TUBING RECORD		Liner Run ☐ Yes ☒ No	
Size	Set At	Packer at	
2 3/8"	4,007.95'	--	

Date of First Production	Producing Method
7-17-87	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
100 Bbls		MCF	-0=		37

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☐ Sold ☐ Other (Specify) 3891-3897
☐ Used on Lease
☐ Dually Completed
☐ Commingled
☒ single

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NOTARY PUBLIC
STATE OF KANSAS