

TIDEWATER OIL COMPANY
WELL RECORD

15-151-10362-0000

LEASE Sue K. Cochran TITLE NO. 1-4589 A.F.E. NO. 2-7793 WELL NO. 1
Pratt COUNTY-PARISH STATE Kansas FIELD NE Garver ROBERTS
 WELL LOCATION FROM LEASE LINES 2310' NSL & 2310' EWL of Section 10-278-15W
 DRILLING CONTRACTOR Barbour Drilling Co., Tulsa, Oklahoma TYPE OF RIG Rotary
 DRILLING: COMMENCED 12-9-56 COMPLETED 12-28-56 DATE OIL STRING SET 12-28-56
 DRILLING IN CONTRACTOR Pratt Well Service TYPE OF RIG Double Drum Unit
 DRILLING IN: COMMENCED 12-21-56 COMPLETED 1-12-57 FIRST PRODUCTION INTO TANKS
 ROTARY TOOLS USED: FROM 0 TO 4439' KIND OF FUEL CABLE TOOLS: FROM TO KIND OF FUEL

PRODUCING FORMATION RECORD

NAME OF FORMATION	PRODUCING SECTION		REMARKS OPEN HOLE, PERFS., CASG. CUT OUT, OTHER PERTINENT DATA ON PAY SECTION.
	FROM	TO	
Cherokee	4392'	4396'	Perforations - 16 holes.
TOTAL DEPTH DRILLED: <u>4439'</u>			PLUGGED BACK DEPTH: <u>4436'</u>

ELEVATION AND MEASUREMENTS

DERRICK FL. ELEV. 2040 FT. GROUND ELEV. 2039 FT. DERRICK FL. TO GROUND 1 FT. ROTARY DR. BUSHING TO DERRICK FL. 3 FT.
 ROTARY DR. BUSHING TO TOP OF 8-5/8" OD Braden Head (PERMANENT MEASURING POINT) 6.6 FT.
 NOTE: ALL MEASUREMENTS ON FORMATIONS, CASING DEPTHS, ETC., ARE FROM Rotary Bushing

CASING-LINER-SCREEN TUBING RECORD

O.D. SIZE	WGT.	GRADE	RGE.	THD.	KIND LW.-SMLS.- EW.-ETC.	NEW S.H.	AMOUNT SET OVER-ALL TALLY-FEET	PULLED OUT OVER-ALL TALLY-FEET	DEPTH SET AT	CEMENTING DATA		
										NO. OF SACKS	KIND OF CEMENT	CEMENTED BY
8-5/8"	28#	H-40	1	2-V	LWS	SH	324'		326'	300	Pozmix	Howco
5-1/2"	15.5#	H-40	2	8-RD	SS	N	4462'		4439'			
2-3/8"	4.7#	J-55	2	8-Rd	SS	N	4423'		4423'		Includes 4' anchor end 1' Seating Nipple	

CASING PERFORATIONS-CASING CUT OUT-PACKER SETTING RECORD

FROM	TO	HOLES		METHOD OR DESCRIPTION
		NO.	SIZE	
4392'	4396'	16		Lane-Hells Swing Gun (Through 2" Tubing)

SHOT OR ACIDIZING RECORD

FROM	TO	KIND	QTS.-GALS.	DATE	SERVICE COMPANY	REMARKS--(CASING OR HOLE DAMAGED)

INITIAL PRODUCTION TESTS AND POTENTIAL DATA

DATE	SIZE CHOKE OR TUBING	FLOWING PRESS.		TIME		BARRELS OIL-COND.	CORR. GVTY.	GAS-OIL RATIO OR M.C.F. GAS	BBLs. OR % B.S.-WATER	REMARKS METHOD OF PRODUCING, ETC.
		TUBING	CASING	HRS.	MIN.					
1-1-57	2"									Flowed oil blanket then gas only.

OFFICIAL 24-HOUR POTENTIAL	NATURAL			AFTER SHOT - ACID			DATE POTENT. EFFECTIVE	NAME OF FORMATION IF MORE THAN ONE PAY
	BBLs. OIL	BBLs. WATER	M.C.F. GAS	BBLs. OIL	BBLs. WATER	M.C.F. GAS		

REMARKS OF SPECIAL INTEREST: (WHIPSTOCK SETTING, TOOLS, OR MATERIAL LOST IN HOLE, ETC.)

(OVER)

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FORMATION RECORD

DEPTH	FORMATION	DEPTH	FORMATION	HOLE DEFL. SURVEY	
				DEPTH	DEG. OFF
12-28-56	5 1/2" Casing cemented @ 4439'	Top of plug @ 4436'			
12-28-56	Temperature Survey-Top of cement @ 3880'				
12-31-56	Perforated Casing 4392-4396'	Had good blow. Immediately shut in.			
1-1-57	8:00 A.M. casing PSI-1000#. Tubing PSI-1000#. Opened to 12/64" choke @ 8:45 A.M. Flowed back 34.7 bbls. of oil blanket @ 5:45 P.M. Casing 520#, tubing 460#. Had gas only @ 5:45 P.M. Shut in.				
1-3-57	12:00 Midnight opened to 1" choke.				
1-4-57	Casing 200# PSI, tubing 60# PSI (8:00 A.M. to 12:00 Noon on 1/2" choke) Casing 220# PSI, tubing 100# PSI. Tested 549,000 Cu. Ft. of gas. Not enough oil to stain glass in separator. Fracture by Dowell, 352 bbls. oil, 4000 Gallons Petrogel and 4000# 20-40 sand. Broke formation with oil @ 3000# PSI. Broke to 1500# PSI. Pressured to 1750# PSI while pumping sand in formation. 5 minute pressure drop to 1000# PSI. Left shut in.				
1-5-57	12:00 Noon vacuum on casing. Measured up on top of sand-4430'. Lowered tubing 31.47'. Point of anchor now @ 4401'. R.B.M. 4:30 P.M. to 9:30 P.M. swabbed & flowed 56 barrels load oil.				
1-6-57	11 hours flowed 75.8 bbls. on 26/64" choke, Casing 620 PSI, Tubing 420 PSI.				
1-7-57	24 hours flowed 31.9 bbls. on 32/64" choke, Casing 520 PSI, Tubing 200 PSI. Unable to test gas-estimated 1,500,000 Cu. Ft.				
1-8-57	24 hours flowing 1.5 bbls. on 18/64" choke, Casing 1100 PSI, Tubing 1070 PSI.				
1-9-57	24 hours flowing 1.5 bbls. on 32/64" choke, Casing 1100 PSI, Tubing 200 PSI.				
1-10-57	24 hours flowing 1.5 bbls. on 32/64" choke, Casing 580 PSI, Tubing 400 PSI.				
1-11-57	12 hours flowing 34/64" choke				
1-11-57	12 hours flowing 4.5 bbls. on 34/64" choke, Casing 440 PSI, Tubing 220 PSI.				
1-12-57	12 hours flowing 40/64" choke				
1-12-57	12 hours flowing 4.0 bbls. on 1" choke, Casing 400 PSI, Tubing 160 PSI. Shut well in @ 7:30 A.M. (138 bbls. load oil not recovered)				
1-16-57	Shut in pressure. Casing 1080 PSI, Tubing 1080 PSI.				
1-27-57	Shut in pressure. Casing 1170 PSI, Tubing 1170 PSI.				

NOTE: IF HOLE IS PLUGGED BACK SHOW DETAIL OF PLUGGING MATERIAL BY DEPTHS.

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CORE RECORD

TYPE OF CORE	FROM	TO	RECOV'Y		DESCRIPTION OR REFERENCE FOR DETAIL
			FT.	IN.	
Diamond	4390	4430	30	0	See Core Analysis.

DRILL STEM TESTS

TOTAL DEPTH	PACKER AT	CHOKES		TOOL OPEN		SHUT IN		FLOWG BHP	S.I. BHP	RECOVERY AND OTHER DATA
		TOP	BTM	HRS.	MIN.	HRS.	MIN.			

WELL SURVEYS

IMPORTANT GEOLOGICAL TOPS & OTHER FORMATION RECORD

KIND	TOTAL DEPTH	FROM	TO	NAME OF FORMATION	REMARKS
Schlumberger	4490	4392	4402	Cherokee Sand	

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SUE K. COCHRAN NO. 1

NE/4 NE/4 SW/4 of Section 10-27S-15W
 Pratt County, Kansas
 Tidewater Oil Company

8-5/8" O. D. casing cemented at 326'
 5-1/2" O. D. casing cemented at 4438'

Drilling commenced December 9, 1956
 Drilling completed December 29, 1956

FROM	TO	FORMATION	REMARKS
0'	230'	Clay & sand	
230	326	Shale & sand	8-5/8" O. D. casing cemented with 300 sacks cement at 326'
326	375	Red bed & shells	
375	550	Red bed & shale	
550	1720	Shale & shells	
1720	1895	Shale & lime	
1895	2155	Lime & shale	
2155	2335	Lime	
2335	2445	Lime & shale	
2445	2515	Lime	
2515	3130	Lime & shale	
3130	3165	Lime	
3165	3225	Lime & shale	
3225	3780	Lime	
3780	3980	Lime & shale	
3980	4420	Lime	
4420	4439	Shale & chert	
			Coring 4390' - 4420' 5-1/2" O. D. casing cemented with 100 sacks Posmix at 4438'
	T.D. 4439'		

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