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Side Two

ORIGINAL

Operator Name: Murfin Drilling Company, Inc. Lease Name: Copher Well #: 1-5
Sec. 5 Twp. 9 S. R. 18 East West County: Rooks

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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)

Log Formation (Top), Depth and Datum Sample
Name Top Datum

SEE ATTACHED LIST

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List All E. Logs Run:

**Dual Induction, Dual Compensated Porosity,
Microresistivity**

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		8 5/8		235'	Common	160	3% cc, 2% gel
Production		4 1/2		3559	AA2 Premium,	190	10% salt

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1446	A-Con	175	

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	3300-3304	250 gal 15% MCA	
4 SPF	3310-3314	500 gal 15% MCA	
	set bridge plug @ 3345'	250 gal 15% MCA	
4 SPF/EACH	3410-3412, 3394- 3396, 3370-3373, 3353-3354,	250 gal 15% MCA	
	3282-3283, 3255-3259, 3218-3219	500 gal 15% MCA	

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TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	3345'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhr.	Producing Method
3/2/05	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	----	82	-----	

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)
METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled
Production Interval Other (Specify)

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MDCI Copher #1-5 2150 FSL 1100 FEL 2038' KB							Alpine Oil I& Royalty #1 O'Brien NE NW SE 2049' KB	
Formations	Log Tops	Datum	Ref	Sample Tops	Datum	Ref	DT Tops	Datum
Anhydrite				1428	+610	-6	1433	+616
B/Anhydrite				1465	+573			
Neva	2438	-400		2438	-400			
Foraker	2555	-517		2558	-520			
Stotler				2777	-739			
Tarkio				2822	-784			
Topeka	2968	-930	+1	2968	-930	+1	2980	-931
Heebner	3175	-1137	+4	3177	-1139	+2	3190	-1141
Toronto	3197	-1159	+4	3200	-1162	+1	3212	-1163
Lansing	3216	-1178	+2	3220	-1182	-2	3229	-1180
BKC	3434	-1396	+3	3439	-1401	-2	3448	-1399
Arbuckle	3498	-1460	-30	3505	-1467	-37	3479	-1430
TD	3561			3560			3530	

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ALLIED CEMENTING CO., INC. 18800

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SERVICE POINT ORIGINAL
B

MIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

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DATE <u>12/28/04</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>5:15 p.m.</u>	JOB START	JOB FINISH <u>10:45 p.m.</u>
LEASE <u>Copher</u>	WELL # <u>1-5</u>	LOCATION <u>P.ville 2w 4 1/2w</u>			COUNTY <u>Rooks</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Murfin #16

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 2360

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10

PERFS.

DISPLACEMENT 24 1/4 Bhi

OWNER _____

CEMENT AMOUNT ORDERED 160 Com 3-2

EQUIPMENT

PUMP TRUCK CEMENTER Paul

366 HELPER Shane

BULK TRUCK

222 DRIVER Craig

BULK TRUCK

DRIVER

COMMON	<u>160</u>	@	<u>7.85</u>	<u>1256.00</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>11.00</u>	<u>33.00</u>
CHLORIDE	<u>5</u>	@	<u>33.00</u>	<u>165.00</u>
ASC		@		

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HANDLING	<u>168</u>	@	<u>1.35</u>	<u>226.80</u>
MILEAGE	<u>54/SK/MILE</u>	@		<u>420.00</u>
TOTAL				<u>2100.00</u>

REMARKS:

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>570.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>50</u>	@	<u>4.00</u>	<u>200.00</u>
MANIFOLD		@		
TOTAL				<u>770.00</u>

Cement Circled

CHARGE TO: Murfin

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Plug <u>8 5/8 Surf</u>	@		<u>55.00</u>
	@		
	@		
	@		
	@		
TOTAL <u>55.00</u>			

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Bill Wynn

Bill Wynn
PRINTED NAME

THANKS

ALLIED CEMENTING CO., INC.

PO BOX 31
 RUSSELL, KS 67665
 PH (785) 483-3887
 FAX (785) 483-5566

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 * I N V O I C E *

Invoice Number: 095556

Invoice Date: 12/31/04

Sold Murfin Drilling Co.
 To: 250 N. Water, St. #300
 Wichita, KS
 67202

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Due Date.: 01/30/05
 Terms....: Net 30

Cust I.D.....: Murfin
 P.O. Number...: Copner 1-5
 P.O. Date.....: 12/31/04

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	160.00	SKS	7.8500	1256.00	T
Gel	3.00	SKS	11.0000	33.00	T
Chloride	5.00	SKS	33.0000	165.00	T
Handling	168.00	SKS	1.3500	226.80	E
Mileage (50)	50.00	MILE	8.4000	420.00	E
168 sks @\$.05 per sks per mi					
Surface	1.00	JOB	570.0000	570.00	E
Mileage pmp trk	50.00	MILE	4.0000	200.00	E
Surface Plug	1.00	EACH	55.0000	55.00	T

All Prices Are Net, Payable 30 Days Following
 Date of Invoice. 1 1/2% Charged Thereafter.
 If Account CURRENT take Discount of \$ 292.58
 ONLY if paid within 30 days from Invoice Date

Subtotal: 2925.80
 Tax.....: 79.98
 Payments: 0.00
 Total....: 3005.78

*New Well
 Surface Casing Cement*

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TREATMENT REPORT



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Customer ID	Date
Customer Murfin Drlg	1/1/05 WELL FILE
Lease Copher	Lease No.
Well # 1-5	State KS
Field Order # 9371	Station Pratt 165
Casing 4 1/2	Depth 3559
County Rook's	State KS
Type Job Long String New well	Formation
	Legal Description S-95-18w

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 4 1/2	Tubing Size	Shots/Ft 1.44	13.0	Acid 190 ski AA-2 'H'	RATE 1090 Salt	PRESS 2000	ISIP	
Depth 3537	Depth PBTD	From #3	To PPG	Pre Pad 18 FLA-322 5 #6il	Max 12 Defoamer	5 Min.		
Volume 56.3	Volume	From	To	Pad 135 Friction Reducer	Min	10 Min.		
Max Press 2000	Max Press	From 125	To 14.5	Frac 25 ski 60-40 por	Avg	15 Min.		
Well Connection	Annulus Vol.	From	To	Flush 12 Bbl. mud flush	HHP Used	Annulus Pressure		
Plug Depth	Packer Depth	From	To		Gas Volume	Total Load		

Customer Representative John	Station Manager Dave Autry	Treater D. Scott
---------------------------------	-------------------------------	---------------------

Service Units	118	26	81	72				
---------------	-----	----	----	----	--	--	--	--

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
2200					On loc w/Trki Safety mtg 6.5. Bottom ISFV Top S.J. Cent 1-5-7-10-17-29-40-48-54-67 Port Coller Top 50th = 1443' Cnt Basket #49 Csg on Bottom Drop Ball & Circ w/Rig
					H2O Spacer
1003	300		5	5	St mud Flush
1005	300		12	5	St H2O Spacer
1007	300		5	5	Mix Cmt @ 13.0 ppg 190 ski
1010	300		48	4.3	Close In + Wash Pump + line
1022	0		10	5	Release Plug + St Disp w/H2O
1025	100			5.6	30 Bbls Disp Out Lift Cmt
1036	300		30	5.0	Plug Down + psi Test Csg
1035	1250		56.3	0	Release psi float Held
1037	0				Good Circ Thru Job
					Rotated Csg
					Plug R. Hit m.H. w/25 ski por
					Job Complete
					Thank you Scotty

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Copher #1-5

Operator: Murfin Drilling Company, Inc.
Contractor: Murfin Drilling Company, Inc.
Rig #16

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Boxelder Prospect #3061

2150 FSL 1100 FEL
Sec. 5-T9S-R18W
Rooks County, Kansas

Contact Person: David Doyel
Phone number: 316-267-3241
Well site Geologist: Kevin Davis

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Call Depth: 2000'
Spud: 12/28/04 @ 2:45 p.m.

API #: 15-163-23412
Casing: 8 5/8" @ 235'
4 1/2" @ 3559'
Elevation: 2033' GL
2038' KB

TD: 3560'

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DAILY INFORMATION:
12/28/04 MIRT.

- 12/29/04 Depth 600'. Cut 600'. DT: 8 hrs. (WOC). CT: none. Dev.: 1° @ 236'. Spud @ 2:45 p.m. 12/28/04. Ran 5 jts. = 227.98' of 8 5/8" surf. csg. set @ 235'. Cmt. w/160 sx. comm., 3% cc, 2% gel. Plug down @ 6:45 p.m. 12/28/04, circ. 8 bbls. by Allied. Drilled out plug @ 2:45 a.m. 12/29/04.
- 12/30/04 Depth 2290'. Cut 1690'. DT: none. CT: none. Dev.: 1/2° @ 1202'.
- 12/31/04 Depth 2860'. Cut 570'. DT: 1/4 hr. (RC). CT: none. Dev.: 1/2° @ 2316'.
- 1/1/05 Depth 3282'. Cut 422'. DT: none. CT: 4 1/2 hrs. Dev.: none. **DST #1 3176-3282' (Toronto - LKC D zones):** 30-60-60-90; Rec. 123' OCM, 1' O (124' TF); HP: 1583-1549; FP: 15/38, 41/69; SIP: 822-819. BHT 96°.
- 1/2/05 Depth 3308'. Cut 26'. DT: none. CT: 22 3/4 hrs. Dev.: 1/2° @ 3282'. **DST #2 3280-3308 (LKC D-G zones):** 30-60-60-90; Rec. 1550' GIP, 660' O, 185' SW (845' TF); HP: 1630-1579.; FP: 33/174, 182/385; SIP: 815-772.
- 1/3/05 Depth 3465'. Cut 157'. DT: none. CT: 15 hrs. Dev.: none. **DST #3 3334-3424' (LKC H-K zones):** 30-60-30-60; Rec. 20' M; HP: 1668-1607; FP: 14/23, 25/33; SIP: 852-824. Circ. @ 3476' just above Arbuckle.
- 1/4/05 RTD 3560'. Cut 95'. DT: none. CT: 19 hrs. Dev.: 1/2° @ 3560'. HC @ 4:45 P.M. 12/3/05. Log Tech logged from 7:30 p.m. to 11:57 p.m. 1/3/04. LTD @ 3561'. Running 4 1/2" prod. csg.
- 1/5/05 RTD 3560'. CT: 7 1/2 hrs. Ran 84 jts. = 3568' of 4 1/2" prod. csg. set @ 3559'. Cmt. w/190 sx. AA-2 plug down @ 10:30 a.m. 1/4/05, Port collar @ 1444'. 15 sx. in RH, 10 sx. in MH by Acid Services. Rig released @ 2:30 p.m. 1/4/05. **FINAL REPORT.**

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Copher #1-5
Drilling report
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Foraker	2555	-517		2558	-520			
Stotler				2777	-739			
Tarkio				2822	-784			
Topeka	2968	-930	+1	2968	-930	+1	2980	-931
Heebner	3175	-1137	+4	3177	-1139	+2	3190	-1141
Toronto	3197	-1159	+4	3200	-1162	+1	3212	-1163
Lansing	3216	-1178	+2	3220	-1182	-2	3229	-1180
BKC	3434	-1396	+3	3439	-1401	-2	3448	-1399
Arbuckle	3498	-1460	-30	3505	-1467	-37	3479	-1430
TD	3561			3560			3530	

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Copher #1-5
Completion Report
Section 5-9S-18W
Rooks County, KS

1/4 – Driller TD 3560', LTD 3561'. Truck hauling 4 1/2" csg stuck on county road due to ice. Called dozer. Pulled csg truck to location. Welded on 100' of scratchers 3401-3386, 3343-3328, 3316-3285, 3262-3242, 3230-3204. TIH w/4 1/2 x 22.09" shoe jt w/guide shoe & insert. TIH w/total 84 jts 4 1/2 10.5 PPF J-55 STC new from Sunrise Supply. Tagged btm @ 3560'. Set btm guide shoe 3559', insert 3535.91', Port Collar 1443.06 w/1 basket below P.C. Dropped ball & broke circulation. Circ 45 min prior to cementing. RU Acid Services. Pumped 5 BFW, 500 gal mud flush, 5 BFW, 190 sacks AA2 cmt, 10% salt, 5# gilsonite, .8% FLA 222, 2% defcamer, .35% CFR3 @ 15 PPG. When pumping last of cmt lost circ. Cellar stayed full. Quit rotating & regained circulation. Displaced cmt w/56 BFW, good circulation. Plug down @ 10:25 A.M. @ 1500# = 850# over lift pressure. Cellar stayed full. Released pressure. Float held. Packed off csg head. Centralizers: 3535', 3365', 3279', 3151', 2851', 2338', 1870', 1528', 1271', 771'.

1/14 – Brought 8 5/8" connections to surface. Backfilled cellar & leveled location. 1/15 – RU Log Tec & portable mast. Ran Sonic Cement Bond Log. TD 3535, Port Collar 1446', top cement 2339'.

1/19 – To muddy to move in 2 3/8" tbg.

1/21 – To muddy to move in completion equipment.

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→ Completion/Day 1

1/27 – MI 2 3/8" tbg f/Russell yd. Rig could not make it through mud by terrace. Dozer pushed out mud. MIRU #396. MI swab tank. SDON. Est cost \$1950.

1/28 – RIH w/PC tool & tbg. Found port collar @ 1446'. Acid Service cmt truck stuck backing up to well. Not muddy just slick on top. Truck did not have chains. Waited 2 1/2 hrs on dozer. Pressure test csg to 1250# & held. Opened Port Collar. Pumped 175 sacks A-con to circ cmt to surface. Witnessed by Pat Staab w/KCC. Closed P.C. pressured to 1250# & held. Ran tbg to 1593', circ clean. TOH w/tbg & PC tool. SDOWE. Est cost \$10,178.71

1/31 – Swabbed dwn csg to 3100'. RU Perf Tech. Tagged fluid 2930'. Perforated 3310-14 G & 3300-04 EF, 4 SPF, ESHC 32 gram. FL stayed @ 2930'. RIH w/plug & pkr. Set plug 3338', pkr @ 3307'. Isolating 3310-14 G. RIH w/swab. Tagged fl 2300' f/surface, 1007' FIT, all wtr. 2nd pull dry. SDON. Est cost \$15,523.71

2/1 – Plug 3338', pkr 3307', isolating 3310-14 G. RIH w/swab. Tagged 3000' f/surface, 300' FIT, 300' overnight fillup, dirty wtr. 2nd & 3rd pull dry. Ran pkr to 3322'. Tagged fluid 2800' f/surface. Dumped 3 1/2 bbl 15% MCA dwn tbg. Set pkr 3307'. Loaded tbg w/12.8 bbl, acid is on btm. Let soak f/30 min. Pressured to 50# after 30 min psi climbed to 400#. Bled back pressure to 200#. After 15 min psi back to 300#, in 5 more min psi dropped to 0# w/blow on backside. RIH w/swab. Tagged 1600' f/surface. Made 1 pull vac on backside. Communicated to 3300-04 E-F. Ran pkr to 3314' & left hang. Tagged fluid 1900' f/surface. S/D to 2400', all wtr. Spotted 5 1/2 bbl 15% MCA. Reset pkr @ 3267' isolating 3300-04 & 3310-14. Treated 2 BPM 300#, ISIP 0#, 34 total load. Tagged fluid 400' f/surface. S/D to 2700' = 567' FIT, rec. 29.25 BTF, 50% oil. Retreated 3300-14 & 3310-14 w/250 gal 15% MCA, 150# 3 bbl rock salt plug, 500 gal 15% MCA. Started 3 BPM 400# w/plug on btm, 3 BPM 675#. Displaced acid w/17 BW, 3 BPM 675#, ISIP vac, 38 bbl load. Tagged 650' f/surface. S/D to 2300' = 967' FIT, rec 24.57 BTF, 25% oil. SDON. Est cost \$20,214.

2/2 – Plug 3338', pkr 3267', isolating 3300-04 & 3310-14. Tagged 1200' f/surface, 1500' overnight fillup, 2067' FIT, 1400' oil on top, 68% oil. S/D to 2700' = 567' FIT, rec 26.91 BTF, 12 bbls over load. 1 hr test, 6 PPH, FL 2700', 567' FIT, rec 12.87 bbl, 65% oil. 2nd hr, 6 PPH, FL 2750', 517' FIT, rec 10.53 bbl, 65% oil. 3rd hr test, 5 PPH, FL 2750', 517' FIT, rec 9.36 bbl, 65% oil. Changed cups. 4th hr test, 6 PPH, FL 2750', 517' FIT, rec 11.70 bbl, 65% oil. TOH w/tbg & tools. SDON. Est cost \$22,564.

2/3 – RU Perf Tech. FL 1950'. Perforated 3410-12 K, 3394-96 J, 3370-73 I, 3353-54 H, 3282-83 D, 3255-59 C, 3218-19 A. All 4 SPF, 11 gram charges. FL stayed @ 1950'. TIH w/plug & pkr. Set plug 3432', set pkr 3403' isolating 3410-12. RIH w/swab. Tagged fl 1900' f/surface. Swabbed dry. SDON. Est cost \$25,859.



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Copher #1-5
Completion Report
Section 5-9S-18W
Rooks County, KS
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2/4 – Plug 3432', pkr 3403, isolating 3410-12 K. RIH w/swab, dry. Ran pkr to 3414'. Tagged fluid. Dumped 6 bbl 15% MCA + 2 BW to spot acid. Reset pkr 3403'. Loaded tbg w/14.9 bbl, 1 bbl over. Pressured to 200# slight bleed off. With ½ bbl out, 7 GPM 125#. Displaced acid w/14 BW 7 GPM 50#, ISIP 50#, 1 min flat surface, 20 ½ load. Swabbed dry. No oil show, rec 15.12 BTF. Plug 3401, pkr 3381' isolating 3394-96 J. Tagged fluid 2150'. Swabbed dry. Pkr 3398'. Dumped 6 bbl 15% MCA + ½ BW to spot acid. Reset pkr 3381'. Tbg loaded 14 ½ bbl = 1 bbl late. Pressured to 200# & held. Pressured to 500# & held f/30 min. Pressured to 750# & held f/30 min. Swabbed tbg dry. Moved tools. Plug 3386', pkr 3361 isolating 3370-73 I. Swabbed dry. Pkr 3676'. Dumped 6 bbl 15% MCA + ½ BW to spot acid. Reset pkr 3361'. Loaded tbg w/14.2 bbl = 1 bbl late. Pressured to 200# w/slight bleed off w/1/2 bbl acid out 7 GPM 125# w/4 bbl out 1 ½ BPM vac. Displaced acid w/14 BW slight blow on backside. RIH w/swab. Tagged 1200', vac on backside. Communicated to 3353-54 H. Pulled pkr to 3355'. Tagged fluid. Dumped 6 bbl 15% MCA + 3 BW to sport acid on 3353-54. Set pkr 3329' isolating 3370-73 I & 3353-54 H. Treated w/250 gal 15% MCA. Displaced acid w/14 BW. Treated ½ BPM on vac, 20 bbl load. Tagged 100' f/surface. S/D to 3150' = 179' FIT, rec 21.06 BTF dirty wtr. Released pkr. Swabbed acid off backside. Reset pkr. SDOWE. Est cost \$30,105.

2/7 – Plug 3386', pkr 3329, isolating 3370-73 I & 3353-54 H. Tagged 1600' f/surface. 1550' weekend fillup, all wtr. Swabbed dry, rec 7.21 BTF. Moved tools. Plug 3291', pkr 3267', isolating 3282-83 "D". Tagged fluid 1900' f/surface. S/D to 2500'. Took 1 hr test 6 PPH, FL 2750' = 517' FIT, rec 12.87 BTF, 100% wtr. Moved tools. Plug 3269', pkr 3237', isolating 3255-59 C. Tagged 2100', swabbed dry. Pkr 3266'. Dumped 5 ¼ bbl 15% MCA dwn tbg to spot acid. Reset pkr 3237'. Loaded tbg w/13.6 bbl. Loaded ½ bbl late. Pressured to 200# w/slight bleed off. *Treated w/250 gal 15% MCA 1/3 BPM 50#. Displaced acid w/14 BW. ISIP vac, 20 bbl load. Tagged 200' f/surface. S/D to 3180' = 50' FIT, rec 11.7 BTF, 20% oil. Retreated w/500 gal 15% MCA. Displaced acid w/13 BW. Start ½ BPM 50# w/6 bbl acid out ¼ BPM vac, 25 bbl load. Tagged 500' f/surface. S/D to 2800', rec 16.38 BTF, 2% oil. SDON. Est cost \$34,024.

2/8 – Plug 3269', pkr 3237', isolating 3255-59 "C". Tagged 1700' = 1100' overnight fillup, 1569' FIT, 200' oil on top, 11% oil. S/D to 2900' = 337' FIT, rec 9.30 BTF. 1 hr test 6 PPH, FL 2900' = 331' FIT, rec 5.85 BTF, 2% oil, 3/10% mud. 2nd hr 6 PPH, FL 2900' = 337' FIT, rec 7.02 BTF, 35% oil, 3/10% mud. Moved tools. Plug 3245', pkr 3207', isolating 3218-19 "A". Swabbed dry. Pkr 3222'. Dumped 4 ½ bbl 15% MCA dwn tbg to spot acid. Reset pkr 3207'. Pumped remainder of 250 gal 15% MCA + 7.9 BW to load tbg. Pressured to 200# w/slight bleed off. Started feeding 7 GPM 100#, breaking back to 50# @ 10 GPM. Displaced acid w/13 BW, 19 BL. Tagged fluid 150' f/surface. S/D 3150' = 50' FIT, rec 14.04 BTF, trace of oil. 1 hr test 6 PPH, S/D 3150' = 40' FIT, rec .92 BTF, trace of oil. Released pkr. Swabbed acid off backside. Reset pkr. SDON. Est cost \$36,984.

2/9 – Plug 3245', pkr 3207', isolating 3218-19 "A". Tagged 2100' f/surface, 1107' FIT, 1067' overnight fillup, all wtr. S/D to 3170' = 40' FIT, rec 4 BTF, scum of oil. Moved tools. Plug 3338', pkr 3291', isolating 3300-04' "E-F", 3310-14 "G". Tagged fluid 2300'. Made 3 pulls vac on baciside, communicated to 3282-83' "D". Moved pkr to 3267', isolating 3310-14 "G, 3300-04' "E-F" & 3282-83' "D". Tagged fluid 2550', vac on backside, communicated to 3255-59 "C". Set pkr 3237', isolating C, D, E-F, & G. Tagged 2500'. S/D to 2700'. 1 hr test 6 PPH, FL 2700', 567' FIT, rec 10.53 BTF, 45% oil, 3/10% mud. 2nd hr test 6 PPH, FL 2700', 567' FIT, rec 11.70 BTF, 45% oil, 3/10% mud. 3rd hr test 6 PPH, FL 2750', 517' FIT, rec 9.36 BTF, 50% oil, 3/10% mud. 4th hr test 6 PPH, FL 2750', 517' FIT, rec 8.19 BTF, 44% oil, 3/10% mud. 5th hr test 6 PPH, FL 2825', 442' FIT, rec 7.02 BTF, 43% oil, 3/10% mud. SDON. Est cost \$39,289.

– 2/10 – Plug 3338', pkr 3237', isolating C, D, E-F & G. Tagged 2000' f/surface, 1237' FIT, 825' overnight fillup, 600' oil on top, 49% oil. Released pkr & ran dwn to 3320' & left hang. Tagged 2300'. S/D to 2800', rec 16.38 BTF, 1% oil, 5% mud. 1st hr test 6 PPH, FL 2900', 420' FIH, rec 9.36 BTF, 5% oil, 2% mud. 2nd hr test 6 PPH, FL 2900', 420' FIH, rec 9.36 BTF, 50% oil, 3/10% mud. 3rd hr test 6 PPH, FL 2970', 350' FIH, rec 8.19 BTF, 40% oil, 3/10% mud. 4th hr test 6 PPH, FL 2900', 420' FIH, rec 8.19 BTF, 50% oil, 3/10% mud. 5th hr test 6 PPH, FL 2970', 350' FIH, rec 8.19 BTF, 53% oil, 3/10% mud. 6th hr test 6 PPH, FL 3020', 300' FIH, rec 5.85 BTF, 51% oil, 2/10% mud. SDON. Est cost \$41,298.

2/11 – TOH w/tbg & tools. RU Log Tech. (Set CIBP @ 3345'). Put ¼ sack cmt on top of CIBP. FL 2250'. RIH w/new 2 3/8 x 3' perforated sub, new 2 3/8" SN, 4 jts 2 3/8" tbg, new 4 ½ x 2 3/8" Baker AC, 104 jts 2 3/8" yellow



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ORIGINAL

Copher #1-5
Completion Report
Section 5-9S-18W
Rooks County, KS

band tbg, 2 3/8 x 6' sub. Btm perforated sub 3330.37', SN 3327.37', AC 3201.40' set w/11" stretch 11,000# tension. SDON. Est cost \$44,571.

2/14 - Hauled 3/4" rods f/H.C. to location. Pulled rod trailer into location w/tractor. RIH w/new 2 x 1 1/2 x 14' RWTC steel bbl brass PT, SV, 4' SMP, 100" MS, 2' x 3/4" sub, 131 - 3/4" Ico grade "D" rods, 8', 6', 4', 2' x 3/4" subs, 1 1/4 x 16' PR w/7' liner. Longstroked. Have strong blow. Clamped off PR. RD #396. Assembled wellhead connections. Est cost \$46,871.00 less tbg & rods.

2/16 - Dozer pushed off mud. Pulled out rig #396 & doghouse. Pulled pipe trailer to county road. Built unit & tank pads. Pushed CRP grass off where lead line & electric line will be ditched so ground will dry out or freeze so ditcher can ditch.

2/17 - Spread sand out on pad. Set & assembled 114 Sentry unit & put in 64" stroke. Hauled in shale in front of tank battery pad.

2/18 - Waiting on tank battery, electric & lead lines.

2/21 - SD, waiting on tank battery, electric services & lead line.

2/22 - Aquila Power Co. installed overhead line & meter pole.

2/23 - Ditched & layed 2300' electric line. Set control panel. Hooked up @ well & meter pole. Ditched & layed 2300' 2" PVC Sch 40. Hooked up line to wellhead & have line coming up @ tank battery pad for riser.

2/24 - Waiting on tank battery.

2/25 - Waiting on tank battery. 2/26 - 49 JTF, 1509 FTF, 1817' FAP static FL. POP 8.82 x 64 x 1 1/2, 136.27 TF, 93% PE. Pumped up in 1 hr. Shut back dwn waiting on tank battery.

2/28 - McDonald Tank set new 10 x 15 fiberglass gun barrel (Ser #M4370), 12 x 10 fiberglass closed top salt water tank (Ser #M4461), 2 - 12 x 10 welded steel stock tanks (Ser #MP8017 & MP8018). Emptied swab tank & put fluid in gun barrel.

3/1 - POP 7:30 A.M. 8.22x64x1.5, 136 TF, 93% PE.

3/2 - 8.82x64x1.5, 132 TF, 62% wtr, 50.16 BO, 81.84 BW, NPF, 90% PE, 31.73 BOIS. Built dike around tank battery & mowed crp grass f/lease road to be made. Jacam checked out 1% wtr to stock.

3/3 - 8.82x64x1.5, 132.48 TF, 40% wtr, 79.49 BO, 52.99 BW, NPF, 90% PE, 91.02 BOIS. 102 JTF, 3141 FTF, 184' FAP. Oil to stock 4/10% wtr.

3/4 - 8.82x64x1.5, 117.07 TF, 44% wtr, 65.56 BO, 51.51 BW, YPF top of stroke, 80% PE, 66.80 BOIS. Sold 1st tank, 35.2 gravity @ 38 deg., 8/10% wtr. 3/5 - 55.33 BO, 43.47 BW, 44% wtr, 98.80 TF, YPF, 67% PE, 51.77 BOIS. 3/6 - 51.09 BO, 41.81 BW, 45% wtr, 92.90 TF, YPF, 63% PE, 46.76 BOIS.

3/7 - 8.82x64x1.5, 88.80 TF, 45% wtr, 48.84 BO, 39.96 BW, YPF, 60% PE, 40.08 BOIS.

3/8 - 8.82x64x1.5, 78.90 TF, 46% wtr, 42.61 BO, 36.29 BW, YPF, 53% PE, 35.07 BOIS. Put unit in 54" stroke.

3/9 - 8.82x54x1.5, 74.88 TF, 46% wtr, 40.44 BO, 34.44 BW, YPF, 60% PE, 33.81 BOIS.

3/10 - 8.82x54x1.5, 72 TF, 45% wtr, 39.60 BO, 32.40 BW, YPF, 58% PE, 36.74 BOIS.

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