

WELL NAME: Moore "C" #1
AREA: Stonington Field
LOCATION: Section 29-31S-42W
COUNTY: Baca
STATE: Colorado
ELEVATIONS:
FOOTAGE: 2930' FSL, 1538' FWL

CONTRACTOR: Murfin Drilling Co.
NID APPROVED: Verbal 6-25-76
EST. TD: 3275'
AFE NUMBER: Y 5545
LEASE NUMBER: 50,571
TXO WI: 75.0%

COMPANY

CONTACT

ALTERNATE

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Mr. Sharp

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6-28-76 MIRU.

6-29-76 DD 1. Drilling @ 280' in shale. Made 280'. No slope. MW 9.3, Vis 38. Bit #1, 12 1/4" OSCIG, in @ 0, ~~out @ 280'~~. Made 280' in 5 3/4 hrs. Cum MC \$212.44

Spud 12 1/4" hole @ 12:30 a.m. 6-29-76.

6-30-76 DD 2. Depth 638' in shale. Made 358'. Dev. 3/4° @ 335', 3/4° @ 500', 3/4° @ 638'. MW 9.4, Vis 40. Bit #1, 12 1/4" OSCIG, in @ 0, out @ 335'. Made 335' in 6 hrs. Bit #2, 7 7/8" DT, in @ 335', out @ 638'. Made 303' in 3 3/4 hrs. Bit #3, 17 1/4" OSC3A. Reamed from 0-335' in 7 hrs. Daily MC \$0. Cum MC \$212.44. WDP 4 3/4 hrs.

Ran 11 jts 12 3/4" csg (311.30'). Set @ 322'. Cmt w/250 sx Howco Lite followed by 100 sx Class "H" w/3% CaCl. Cmt. circ. PD @ 6:45 a.m. 6-30-76. WOC.

7-1-76 DD 3. Drilling @ 1110' in redbeds. Made 472'. Dev. 1° @ 900'. MW 9.2, Vis 33, LCM 4#. Bit #4, 7 7/8" DT rerun, in @ 638'. Made 472' in 6 1/4 hrs. Daily MC \$440.21. Cum MC \$652.65.

Drill plug @ 6:45 p.m. 6-30-76.

7-2-76 DD 4. Drilling @ 2205' in shale. Made 1095'. Dev. 1 1/4° @ 1375'. MW 9.2, Vis 32, LCM 2#. Bit #5, 7 7/8" F2RR, in @ 1375'. Made 830' in 19 1/4 hrs. Bit #4, 7 7/8" DT rerun, out @ 1375'. Made 737' in 12 1/4 hrs. Daily MC \$210.10. Cum MC \$862.75.

7-3-76 DD 5. Drilling @ 2655' in lime & shale. Made 450'. Dev. 2° @ 2528'. MW 9.0, Vis 34. Bit #6, 7 7/8" F3RR, in @ 2528'. Made 127' in 8 hrs. Bit #5, 7 7/8" F2RR, out @ 2528'. Made 1153' in 31 1/4 hrs. Daily MC \$457.55. Cum MC \$1,320.30.

7-4-76 DD 6. Drilling @ 3005' in lime & shale. Made 350'. No slope. MW 9.2, Vis 41, WL 8.8, Cake 2/32, Cl 19,000, Ph 7.5, Solids 6, P.V. 4, Y.P. 9, Gels 5/7, LCM 4#. Bit # 6, 7 7/8" F3RR, in @ 2528'. Made 477' in 31 hrs. Daily MC \$1,335.41. Cum MC \$2,655.71.

7-5-76 DD 7. Tripping for DST #1 @ 3135' in lime & shale. Made 100'. Dev. 1/2° @ 3135'. MW 9.3, Vis 56, WL 8.6, Cake 2/32, Cl 17,000, Ph 7.5, Solids 6.5, P.V. 5, Y.P. 16, Gels 9/11, LCM 2#. Bit #6, 7 7/8" F3RR, in @ 2528', out @ 3135'. Made 607' in 40 3/4 hrs. Daily MC \$403.56. Cum MC \$3,059.27. WDP 13 3/4 hrs.

7-6-76 DD 8. Drilling @ 3200' in lime & shale. Made 65'. Dev. 1° @ 3196'. MW 9.4, Vis 55, WL 12.6, Cake 2/32, Cl 19,000, Ph 7.5, Solids 8, P.V. 9, Y.P. 39, Gels 12/16, LCM 2#. Bit #7, 7 7/8" F2RR, in @ 3135', out @ 3196'. Made 61' in 4 hrs. Bit #8, 7 7/8" F2RR, in @ 3196'. Made 4' in 3/4 hrs. Daily MC \$291.27. Cum MC \$3,350.54. WDP 19 1/4 hrs.

Sample top: Topeka 3040' Topeka "A" 3114'

DST #1, 3112-3135'. Op 30" SI 60" Op 60" SI 120". Rec. 70' WCM. Top Rw .312 @ 89°, bottom Rw .248 @ 85°, pit Rw .540 @ 88°. BHS 0#, 2000 cc WCM, Rw .248 @ 85°. IHP 1581#, IFP 43-57#, ISIP 516#, FFP 43-86#, FSIP 516#, FHP 1573#. BHT 102°.

Sample top: Topeka "B" 3146'

DST #2, 3133-3196'. Op 30" SI 60" Op 60" SI 120". IF weak blow steadily increasing. FF steady blow throughout. Rec. 125' mud, 120' WCM. Top Rw .470 @ 85°, middle Rw .370 @ 84°, middle Rw .310 @ 84°, bottom Rw .260 @ 80°, pit Rw .510 @ 82°. BHS 0#, 2000 cc WCM, Rw .26 @ 80°. IHP 1738#, IFP 57-115#, ISIP 487#, FFP 115-258#, FSIP 473#, FHP 1674#. BHT 98°.

7-7-76 DD 9. Circulating to log @ 3295' in lime & shale. Made 95'. No slope. MW 9.5, Vis 50, WL 9.8, Cake 2/32, Cl 21,500, Ph 7.5, Solids 7.4, P.V. 8, Y.P. 34, Gels 10/15, LCM 2#. Bit #9, 7 7/8" F2RR, in @ 3235'. Made 60' in 4 1/2 hrs. Bit #8, 7 7/8" F2RR, out @ 3235'. Made 39' in 3 1/4 hrs. Daily MC \$214.72. Cum MC \$3,565.26. WDP 16 3/4 hrs.

DST #3, 3200-3235'. Op 30" SI 60" Op 60" SI 120". IF strong blow, GTS in 28", no gauge. FF gauged:

10"	18.5 MCF
20"	40.9 MCF
30"	42.4 MCF
40"	43.9 MCF
50"	45.5 MCF
60"	45.5 MCF

Rec. 65' mud (Rw .408 @ 85°), 60' GCM (Rw .386 @ 85°), 185' G&WCM (Rw .300 @ 85°). Pit mud Rw .424 @ 80°. BHS 130#, .49 CFG, 850 cc WCM, Rw .238 @ 74°. IHP 1766#, IFP 57-115#, ISIP 459#, FFP 86-143#, FSIP 473#, FHP 1752#. BHT 105°.

TD 7 7/8" hole @ 5:45 a.m. 7-7-76.

7-8-76 DD 10. DTD 3295' in lime & shale. Dev. 1 1/4° @ 3295'. MW 9.9, Vis 90, WL 8.2, Cake 2/32, Cl 20,000, Ph 7.5, Solids 9.2, P.V. 10, Y.P. 51, Gels 13/17, LCM 1#. Bit #9, 7 7/8" F2RR, in @ 3235', out @ 3295'. Made 60' in 4 1/2 hrs. Daily MC \$0. Cum MC \$3,565.26. WDP 5 1/2 hrs. WODP 11 1/4 hrs.

Ran DI1 from 3282-325' and CNL-FDC-GR from 3288-1400'.

Log tops:	Base Stone Corral	1500' (+2307')
	Cottonwood	2570' (+1237')
	Neva	2623' (+1174')
	Wabaunsee	2814' (+993')
	Topeka	3029' (+778')
	Topeka "A"	3109' (+698')
	Topeka "B"	3140' (+667')
	Topeka "C"	3198' (+609')
	Topeka "D"	3273' (+534')
	LTD	3289'

Ran 1 Howco cement guide shoe (.78'), 54 jts 4 1/2" OD 10.5# K-55 ST&C Range 2 Cond A csg (1737.97'), 1 GO cementing sleeve (1.85'), 48 jts csg as above (1553.80'). Shoe set @ 3292.40', cementing sleeve @ 1552', float collar @ 3260'. Cmt w/120 sx 50-50 Poz, 18% salt, 3/4% CFR-2. Displace w/51.8 bbl wtr. Had full returns while displacing. PD @ 7:45 a.m. 7-8-76. RR @ 8:45 a.m. 7-8-76. WOCU.

7-10-76 MI & RU Completion Unit

7-11-76 Shut down for Sunday

7-12-76 Shut down

7-13-76 RU Schlumberger, ran cmt bond log, RD Schlumberger, PU shifting tool. RIH 2 3/8" tbg to 1552', RU Halliburton tested csg to 300#. Open cementing sleeve, pumped 35 bbls water, broke circ. after 21 bbls. Pumped 200 sks Class "H" cmt, closed cementing sleeve & pressured to 800# held okay. Reversed excess cmt out of hole, RD Halliburton. Pulled 2 3/8" tbg & shifting tool out of hole. RU Schlumberger & perf w/1 JSPF 3204'-3207', 3214'-3222'. RD Schlumberger, SD for day, Prep to acidize.

Section 29-31S-42W
Baca County, Colorado

- 7-14-76 Trpd in hole w/GO packer & 2 3/8" tbg to 3222'. RU Halliburton, spot 50 gal 15% NE acid. Pull 1 stand 63' tbg, set packer, acidized w/1100 gal 15% NE acid as flws: 300 gals, drop 3 balls, 1ball/100 gal acid, formation breakdown 1500#, treated @ 6½ BPM @ 2300#. Very little ball action. ISI press-vacumn. Rd Halliburton, released packer & trip out of hole w/2 3/8" tbg & pcker laying tbg down. Trpg in hole w/1½ IJ tbg to 3195'. Ran tbg as follows:
- 1 jnt 1.90 OD 2.75# N-80 IJ R2 10R Cond B 3251'
 - 1 jnt 1.90 OD 1.40 ID 10 rounds seating nipple .81'
 - 98 jts 1.90 OD 2.75# N-80 IJ R2 10R Cond B 3147.56'
 - 1 2/3 EUE 8R x 1½" 10R change over swedge .87'
 - 1 2 3/8" EUE J-55 8R 4.75# pup jnt. 6'
 - Total 3187.75', 7' below KB 3194.75'
 - NU well head, SD for day.
- 7-15-76 Tbg dead, 10# on csg., SI. RU & started swabbing. Swabbed for 7 hrs., well flowing w/280# on csg. Flowing fair amt of gas w/10 gal wtr/min. Flowing in heads w/280# on csg. SD for day.
- 7-16-76 Flowing pressure 235# on csg. Tbg blowing strong heavy mist of water. R.R. Installed Orifice tester. 470 MCFPD. S.I. 3:00 P.M. 7-15-76, W.O. pipeline. FINAL REPORT.

TEXAS OIL & GAS CORP.-DRILLING PROGNOSIS

DATE: 6-23-76	WELL NAME NO.: Moore "C" #1	COUNTY: Baca
AFE NO.: 5545	LOCATION: 2930' FS, 1538' FW Sec.29-31S-42W	STATE: Colorado
FIELD: Stonington	TOTAL DEPTH: 3275'	ELEVATION: 3795' GL est. 3805' KB

CASING PROGRAM

Supplier & Loc: 12 3/4" - Lamar Stock		4 1/2" - Dallas Stock					
STRING	SIZE	LENGTH OF SEC.	WEIGHT	GRADE	COUPLING	THREAD	HOLE SIZE
Surface	12 3/4"	350'	40#	X-42	ST&C	8 V	12 1/4", 17 1/2"
Production	4 1/2"	3275'	10.5#	K-55	ST&C	8 rd	H.O.
Tubing	1 1/2"	3150'	2.75#	N-80	NUE	10 rd	7 7/8"

CEMENTING PROGRAM

Company: Halliburton, Lamar 336-7184		
STRING	TYPE OF CEMENT	SPECIAL EQUIPMENT
Surface	250 sx Howco Lite followed by 100 sx Class "H" w/3% CaCl.	1 centralizer
Production	50-50 Pozmix A, 18% salt & 3/4% CFR-2. Min. 500' fillup. Displace @ 6+ BPM with fresh water.	Centralizers, guide shoe, float collar, and cementing sleeve.

SAMPLE AND DRILLING TIME PROCEDURE

30' samples from 1400-1700'.
10' samples and 1' drilling time from 2800'-TD.
Geolograph from SP-TD.

MUD PROGRAM

Company: Magcobar, Jim Dillard, Garden City 316-275-6531							
INTERVAL	TYPE	MUD WT.PPG	VISC.FUNNEL SEC.	W.L.CC/30"	LCM PPB	PV/YP	PH
0-1500'	Spud mud	9-9.2	-	-	AR	-	-
1500-2700'	Native	9-9.2	-	-	AR	-	-
2700-3000'	Gel*, SA & caustic	9-9.2	35-40	NC	AR	-	9.5
3000'-TD	Gel, chem	9-9.1	45-55	8 or less	AR	-	9.5
*Salt gel & starch if necessary							

LOGGING PROGRAM & ESTIMATED FORMATION TOPS

Company: Schlumberger, Liberal 316-624-3801			
FORMATION	DEPTH	TYPE LOG	INTERVAL
Base Stone Corral	1485'	DIL	TD-SP (detail TD-1400')
Cottonwood	2570'	CNL-FDC-GR*	TD-1400'
Neva	2625'		
Wabaunsee	2815'		
Topeka	3035'		
Topeka "A"	3115'		
Topeka "B"	3135'		
Topeka "C"	3195'		
TD	3275'		

*FDC-CNL presented as bulk density & neutron porosity on same log. Do not print ratio curve on this presentation.

TESTING AND CORING PROGRAM

Company (Testing): Halliburton, Lamar
Company (Coring): None
Procedure: DST Topeka "A", "B", and "C" zones individually on way down (Telecopy charts only if gas is recovered). Before logging check chlorides in mud to determine if SP log can be run.
Overlay GR curve on SP log.
Stimulation Company: Western, Guymon
Perf., Correlation & Bond Log Company: Schlumberger

PERSONNEL

NAME	HOME PHONE	OFFICE PHONE
Jerry Damron	336-2905	Mobile: 336-4307 #2100
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Denny Furst	423-3617	893-5253
Bob Dickinson	355-2042	893-5253

MISCELLANEOUS

Roads & loc. inspected by Jerry Damron before MIRT. Consulting geologist on location by 2800'.
Contact Colorado Oil & Gas Conservation Commission for permission to plug if necessary.