

FORM MUST BE TYPED

CONFIDENTIAL

ORIGINAL

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

Operator: License # 30217Name: Robba Exploration, Inc.Address 230 North MarketCity/State/Zip Wichita, Kansas 67202Purchaser: naOperator Contact Person: Richard A. RobbaPhone (316) 264-6653Contractor: Name: L. D. DRILLING, INC.License: 6039Wellsite Geologist: Richard A. Robba

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ SWD ☐ SIOW ☐ Temp. Abd.☐ Gas ☐ ENHR ☐ SIOW☒ Dry ☐ Other (Core, WSW, Expl., Cathodic, etc)☐ If Workover/Re-Entry: old well info as follows:Operator: RELEASEDWell Name: RELEASEDComp. Date Old Total 025thOCT 26 1995☐ Deepening ☐ Re-perf. ☐ Conv. to Inj/SWD☐ Plug Back ☐ Cemented FROM CONFIDENTIAL☐ Dual Completion ☐ Docket No. 5-31-94☐ Other (SWD or Inj) Docket No. 6-11-94Spud Date 5-31-94 Date Reached TD 6-11-94 Completion Date 6-11-94API NO. 15- 15-007-22440-00-00County Barber150' S NW NW Sec. 7 Twp. 31 Rng. 12 X W810 Feet from 3/4 (circle one) Line of Section660 Feet from 2/4 (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name Clarke Well # 1-7Field Name NurseProducing Formation MississippianElevation: Ground 1651' KS 1656'Total Depth 4320' PGTD 258'Amount of Surface Pipe Set and Cemented at 258' FeetMultiple Stage Cementing Collar Used? ☐ Yes ☐ NoIf yes, show depth set 258' FeetIf Alternate II completion, cement circulated from 258'feet depth to 258' w/ 258' SK Cnt.Drilling Fluid Management Plan D&A 094 2-2-95
(Data must be collected from the Reserve Pit)Chloride content 39,000 ppm Fluid volume 1500 bblsDesulfurizing method used haul fld

Location of fluid disposal if hauled offsite:

Operator Name Molz Oil & GasLease Name McGuire License No. 6006-Quarter Sec. 29 Twp. 32 S Rng. 10 X WCounty Barber Docket No. CD 11804

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado
Dorby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well.
Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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 Richard A. RobbaTitle Geologist Date 8/25/94Described and signed to before me this 25th day of AugustNotary Public John N. SchickState of Kansas 4-7-97

AUG 30 1994

K.C.C. OFFICE USE ONLY

☒ Letter of Confidentiality Attached
☒ Wireline Log Received
☒ Geologist Report Received

Distribution
☒ KCC ☐ SWD/Rep ☐ KCPA
☐ KGS ☐ Plug ☐ Other
(Specify)

ORIGINAL

SIDE TWO

CONFIDENTIAL

Perforator Name ROBBA EXPLORATION, INC. Lease Name CLARK Well # 1-7

Loc. 7 Top. 31 Age. 12

☐ East
☒ West

County BARBER

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 "off". 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.)

List All E.Logs Run:

BCN/DENS, DINX

☒ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Wabaunsee	2653	-996
Heebner	3530	-1874
Lansing	3724	-2068
Stark Shale	4033	-2377
B/KC	4109	-2453
Mississippi	4195	-2539

DST see attached sheets

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"	28#	258'	60/40 Poz	160	2% Gel 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing				
☐ Plug Back TD				
☐ Plug Off Zone				
				See CP -4

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

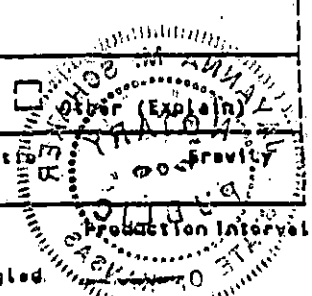
TUBING RECORD	Size	Set At	Pecker At	Liner Run	☐ Yes ☐ No
Date of First, Assumed Production, SWD or Inj.					
Producing Method					
☐ Flowing ☐ Pumping ☐ Gas Lift					
Estimated Production Per 24 Hours	Oil N/A bbls.	Gas N/A Mcf	Water N/A bbls.	Gas-Oil Ratio	Gravity

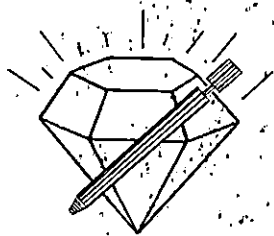
Disposition of Gas:

☐ Vented ☐ Sold ☐ Use:
(If vented, submit AGO)

METHOD OF COMPLETION

☐ Usually Comp. ☐ Cemented





DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

CONFIDENTIAL

ORIGINAL

DRILL-STEM TEST TICKET

15-077-22440

Company Rabba Expl., Inc Lease & Well No. Clark 1-7
Contractor L.D. Drig Charge to Rabba Expl., Inc
Elevation _____ Formation TARK. Effective Pay _____ Ft. Ticket No. _____
Date 6-4-94 Sec. 7 Twp. 31 S Range 12 W County Barber State KANSAS
Test Approved By Rabba Expl. Diamond Representative ROGER D. FRIEDLY

Formation Test No. 1 Interval Tested from 2800 ft. to 2815 ft. Total Depth 2815 ft.
Packer Depth 2795 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2800 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2782 ft. Recorder Number 13386 Cap. 3825 P.S.I.
Bottom Recorder Depth (Outside) 2812 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 31 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.6 Water Loss 40+ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 55,000 P.P.M. Drill Pipe Length 2769 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 15 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 1 1/4 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Wook 1/8" Decreasing blow - Died in 3 min
2nd Open: NO Blow

Recovered 5 ft. of Drilling mud some oil specks in Tool
Recovered _____ ft. of _____
Recovered _____ ft. of _____

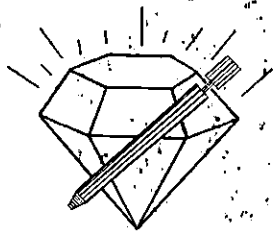
RELEASED

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: 30' Gas in Pipe
OCT 26 1995
FROM CONFIDENTIAL
Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 10:25 A.M. Time Started Off Bottom 11:15 A.M. Maximum Temperature 100
Initial Hydrostatic Pressure (A) 1436 P.S.I.
Initial Flow Period Minutes 10 (B) 58 P.S.I. to (C) 39 P.S.I.
Initial Closed In Period Minutes 15 (D) 49 P.S.I.
Final Flow Period Minutes 10 (E) 39 P.S.I. to (F) 39 P.S.I.
Final Closed In Period Minutes 15 (G) 49 P.S.I.
Final Hydrostatic Pressure (H) 1436 P.S.I.

AUG 30 1994

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

CONFIDENTIAL

DRILL-STEM TEST TICKET

15-077-22440

ORIGINAL

Company R. E. I. Lease & Well No. Clark 1-7
Contractor L. D. D. I. g. Charge to R. E. I.
Elevation _____ Formation TARK. Effective Pay _____ Ft. Ticket No. _____
Date 6-4-94 Sec. 7 Twp. 31 S Range 12 W County Baird State KANSAS
Test Approved By Pick A. R. L. Diamond Representative ROGER D. FRIEDLY

Formation Test No. 2 Interval Tested from 2893 ft. to 2912 ft. Total Depth 2912 ft.
Packer Depth 2888 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 2893 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2875 ft. Recorder Number 13386 Cap. 3825 P.S.I.
Bottom Recorder Depth (Outside) 2909 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 31 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 40+ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 40,000 P.P.M. Drill Pipe Length 2862 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 19 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

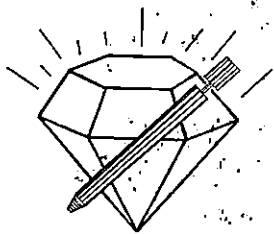
Blow: 1st Open: Fair 2" blow inc. to strong-off BTM BKT 3 min (NO BG)
2nd Open: Good 6" blow inc. to strong-off BTM BKT 2 min (VWBB)

Recovered 45 ft. of SDSMW 23% Gas 2% oil 10% wat. 65% mud
Recovered 62 ft. of SDSMW 10% Gas 2% oil 73% wat. 15% mud
Recovered _____ ft. of _____

Recovered _____ ft. of _____	RELEASED OCT 26 1995	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: <u>1400' Gas in pipe</u>		Insurance
FROM CONFIDENTIAL		Total

Time Set Packer(s) 10:30 ^{A.M.}/_{P.M.} Time Started Off Bottom 1:00 ^{A.M.}/_{P.M.} Maximum Temperature 104
Initial Hydrostatic Pressure _____ (A) 1465 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 68 P.S.I. to (C) 49 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 772 P.S.I.
Final Flow Period _____ Minutes 45 (E) 88 P.S.I. to (F) 78 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 866 P.S.I.
Final Hydrostatic Pressure _____ (H) 1446 P.S.I.

AUG 30 1994



DIAMOND TESTING

P. O. Box 157

HOISINGTON, KANSAS 67544

(316) 653-7550

CONFIDENTIAL

DRILL-STEM TEST TICKET

15-077-22440

ORIGINAL

Company R.E.I. Lease & Well No. Clark 1-7
Contractor H.D. Drig Charge to R.E.I.
Elevation 1656 KB Formation Topoka Effective Pay _____ Ft. Ticket No. _____
Date 6-4-94 Sec. 7 Twp. 31 S Range 12 W County Baker State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. 3 Interval Tested from 3359 ft. to 3412 ft. Total Depth 3451 ft.
Packer Depth 3354 ft. Size 6 3/4 in. Packer Depth 3412 ft. Size 6 3/4 in.
Packer Depth 3359 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set 3412

Top Recorder Depth (Inside) 3341 ft. Recorder Number 13556 Cap. 4425 P.S.I.
Bottom Recorder Depth (Outside) 3405 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth 3448 ft. Recorder Number 13386 Cap. 3875 P.S.I.

Mud Type chem Viscosity 43 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 11-2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 7000 P.P.M. Drill Pipe Length 3328 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out Yes Anchor Length 33 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW OFF BTM BKT 20 SEC GTS 4 min (SBB)
2nd Open: STRONG BLOW OFF BTM BKT IMMED- (SBB)

Recovered 15 ft. of grey mud
Recovered 216 ft. of OCMW 30% Gas 20% oil 35% wat. 15% mud
Recovered 434 ft. of OCMW 30% ✓ 20% ✓ 47% ✓ 3% m
Recovered 124 ft. of SOXCMW 5% oil 95% ✓
Recovered 1426 ft. of salt water
Remarks: 2215' Total Fluid

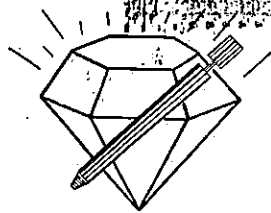
RELEASED

OCT 26 1995

FROM CONFIDENTIAL

Time Set Packer(s) 11:35 A.M. Time Started Off Bottom 1:45 A.M. Maximum Temperature 112
Initial Hydrostatic Pressure (A) 1622 P.S.I.
Initial Flow Period Minutes 20 (B) 272 P.S.I. to (C) 438 P.S.I.
Initial Closed In Period Minutes 20 (D) 1387 P.S.I.
Final Flow Period Minutes 45 (E) 555 P.S.I. to (F) 998 P.S.I.
Final Closed In Period Minutes 45 (G) 1407 P.S.I.
Final Hydrostatic Pressure (H) 1593 P.S.I.

AUG 30 1994



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

DRILL-STEM TEST TICKET

15-077-22440

CONFIDENTIAL
ORIGINAL

Company REI Lease & Well No. Clarke 1-7
Contractor L.D. Dvlg Charge to REI
Elevation 1656 KB Formation Topokg Effective Pay _____ Ft. Ticket No. _____
Date 6-6-94 Sec. 7 Twp. 31 S Range 12 W County Barber State _____
Test Approved By _____ Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 3358 ft. to 3396 ft. Total Depth 3451 ft.
Packer Depth 3353 ft. Size 6 3/4 in. Packer Depth 3396 ft. Size 6 3/4 in.
Packer Depth 3358 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set 3396

Top Recorder Depth (Inside) 3340 ft. Recorder Number 13556 Cap. 4425 P.S.I.
Bottom Recorder Depth (Outside) 3389 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth 3448 ft. Recorder Number 13386 Cap. 3875 P.S.I.

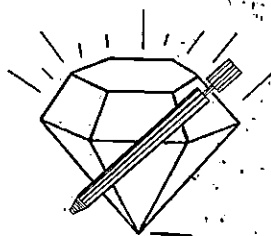
Mud Type Chem Viscosity 43 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 11.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 7,000 P.P.M. Drill Pipe Length 3320 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out Yes Anchor Length 38 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW - OFF BTM BKT 20 Sec - GTS 7min (488)
2nd Open: STRONG BLOW - OFF BTM BKT 45 Sec - (588)

Recovered <u>248</u> ft. of <u>OCmw</u> <u>30% G</u> <u>15% oil</u> <u>25% W.</u> <u>30% Mud</u>	RELEASED OCT 26 1995	Price Job
Recovered <u>124</u> ft. of <u>SOCmw</u> <u>15% v</u> <u>10% v</u> <u>65% v</u> <u>10% v</u>		Other Charges
Recovered <u>186</u> ft. of <u>SOCmw</u> <u>10% v</u> <u>5% v</u> <u>8.2% v</u> <u>3% v</u>		Insurance
Recovered <u>186</u> ft. of <u>SOSmw</u> <u>2% v</u> <u>96% v</u> <u>2% v</u>		
Recovered <u>1056</u> ft. of <u>Salt water</u>		Total

Remarks: 1800 Total Fluid

Time Set Packer(s) 6:55 A.M. Time Started Off Bottom 8:43 P.M. Maximum Temperature 114
Initial Hydrostatic Pressure (A) 1642 P.S.I.
Initial Flow Period Minutes 20 (B) 204 P.S.I. to (C) 407 P.S.I.
Initial Closed In Period Minutes 30 (D) 1387 P.S.I.
Final Flow Period Minutes 30 (E) 506 P.S.I. to (F) 801 P.S.I.
Final Closed In Period Minutes 30 (G) 1387 P.S.I.
Final Hydrostatic Pressure (H) 1593 P.S.I.

**DIAMOND TESTING**

P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

CONFIDENTIAL**DRILL-STEM TEST TICKET****15-077-22440****ORIGINAL**

Company R.E.I. Lease & Well No. Clarke 1-7
Contractor L.D. Drilling Charge to REI
Elevation 1656 KB Formation Douglas Effective Pay _____ Ft. Ticket No. _____
Date 6-29-91 Sec. 7 Twp. 31 S Range 12 W County Barber State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. 5 Interval Tested from 3557 ft. to 3607 ft. Total Depth 3607 ft.
Packer Depth 3552 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3557 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3539 ft. Recorder Number 13386 Cap. 3875 P.S.I.
Bottom Recorder Depth (Outside) 3604 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 42 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.8 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 10,000 P.P.M. Drill Pipe Length 3521 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 55 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: weak 1/8" blow inc to strong - OFF BTM 2 min GTS 12 min (NBB)
2nd Open: STRONG BLOW OFF BTM BKT IMMED

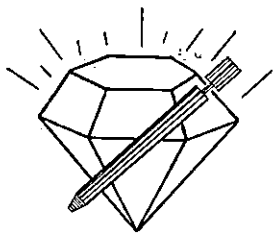
Recovered 77 ft. of Drilling Mud
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____
RELEASED
OCT 26 1995
FROM CONFIDENTIAL

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 4:10 AM/PM P.M. Time Started Off Bottom 6:40 AM/PM P.M. Maximum Temperature 114
Initial Hydrostatic Pressure (A) 1681 P.S.I.
Initial Flow Period Minutes 30 (B) 107 P.S.I. to (C) 97 P.S.I.
Initial Closed In Period Minutes 30 (D) 156 P.S.I.
Final Flow Period Minutes 45 (E) 107 P.S.I. to (F) 97 P.S.I.
Final Closed In Period Minutes 45 (G) 156 P.S.I.
Final Hydrostatic Pressure (H) 1681 P.S.I.

AUG 30 1994



DIAMOND TESTING

P. O. Box 157
HOISINGTON, KANSAS 67544
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DRILL-STEM TEST TICKET

15-077-22440

CONFIDENTIAL
ORIGINAL

Company R.E.I. Lease & Well No. Clarke 1-7
Contractor L.D. Drilling Charge to R.E.I.
Elevation 1656 KB Formation Douglas Effective Pay _____ Ft. Ticket No. _____
Date 6-8-94 Sec. 7 Twp. 31 S Range 12 W County Barber State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. 6 Interval Tested from 3648 ft. to 3678 ft. Total Depth 3678 ft.
Packer Depth 3643 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3648 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3630 ft. Recorder Number 13386 Cap. 5875 P.S.I.
Bottom Recorder Depth (Outside) 3675 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chem Viscosity 56 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 8.7 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 12,000 P.P.M. Drill Pipe Length 3617 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 30 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 X 1 1/4 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

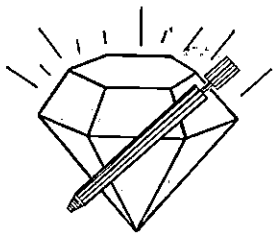
Blow: 1st Open: STRONG BLOW - OFF BTM BKT 45 SEC - GTS 11 min (NBB)
2nd Open: STRONG BLOW - OFF BTM BKT Immersed (W 1" BB)

Recovered 45 ft. of oil, specified Drilling mud 10% G 5% oil 10% wat. 75% mud
Recovered 62 ft. of SOS mud 18% G 2% oil 30% " 50% "
Recovered 62 ft. of SOS W 2% oil 88% wat. 10% mud

Recovered _____ ft. of _____	RELEASED OCT 26 1995 FROM CONFIDENTIAL	Price Job
Recovered _____ ft. of _____		Other Charges
Remarks: _____		Insurance
		Total

Time Set Packer(s) 6:35 A.M. Time Started Off Bottom 8:30 A.M. Maximum Temperature 116°
Initial Hydrostatic Pressure _____ (A) 1672 P.S.I.
Initial Flow Period _____ Minutes 10 (B) 97 P.S.I. to (C) 58 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 1216 P.S.I.
Final Flow Period _____ Minutes 30 (E) 95 P.S.I. to (F) 88 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 1109 P.S.I.
Final Hydrostatic Pressure _____ (H) 1701 P.S.I.

AUG 30 1994



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DRILL-STEM TEST TICKET

15-077-22440

CONFIDENTIAL

ORIGINAL

Company R. E. I Lease & Well No. Clarke 1-7
Contractor L. D. Drilling Charge to REI
Elevation 1656KB Formation Drum Effective Pay _____ Ft. Ticket No. _____
Date 6-9-94 Sec. 7 Twp. 31S Range 12W County Barber State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. 7 Interval Tested from 3923 ft. to 3934 ft. Total Depth 3934 ft.
Packer Depth 3918 ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3923 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3905 ft. Recorder Number 13386 Cap. 3825 P.S.I.
Bottom Recorder Depth (Outside) 3931 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 48 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 11.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 14,000 P.P.M. Drill Pipe Length 3892 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number N/A Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 11 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

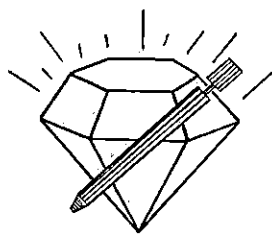
Blow: 1st Open: STRONG BLOW - OFF BTM BKT 15 sec (FBB)
2nd Open: STRONG BLOW - OFF BTM BKT 1 1/2 min (SBB)

Recovered 25 ft. of Muddy water 50% water 50% mud
Recovered 186 ft. of salt water

Recovered _____ ft. of _____	Price <u>RELEASED</u>
Recovered _____ ft. of _____	Other Charges
Recovered _____ ft. of _____	Insurance <u>OCT 26 1995</u>
Remarks: <u>GTS 12 min Final shut IN - No gag.</u>	FROM CONFIDENTIAL
	Total

Time Set Packer(s) 9:30 A.M. P.M. Time Started Off Bottom 11:10 A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure _____ (A) 1917 P.S.I.
Initial Flow Period _____ Minutes 20 (B) 107 P.S.I. to (C) 101 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 1364 P.S.I.
Final Flow Period _____ Minutes 20 (E) 160 P.S.I. to (F) 164 P.S.I.
Final Closed In Period _____ Minutes 30 (G) 1329 P.S.I.
Final Hydrostatic Pressure _____ (H) 1898 P.S.I.

AUG 30 1994



DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(316) 653-7550

CONFIDENTIAL

ORIGINAL

DRILL-STEM TEST TICKET

15-077-22440

Company R.E.I. Lease & Well No. 216/KC # 1-7
Contractor L.D. Dalg. Charge to REI
Elevation 1656 KB Formation MGM/Massy Effective Pay _____ Ft. Ticket No. _____
Date 10-94 Sec. 7 Twp. 31 S Range 12 W County Barber State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. 8 Interval Tested from 4100 ft. to 4175 ft. Total Depth 4175 ft.
Packer Depth 4095 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 4100 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4108 ft. Recorder Number 13386 Cap. 3825 P.S.I.
Bottom Recorder Depth (Outside) 4172 ft. Recorder Number 13498 Cap. 3925 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type Chem Viscosity 43 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 15.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 12,000 P.P.M. Drill Pipe Length 4269 ft. I.D. 3 1/4 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length 31 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 75 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW - OFF BTM BKT 1 MIN (NRB)
2nd Open: STRONG BLOW - OFF BTM BKT IMMEDIATE

Recovered 66 ft. of SOCGM 10% Gas 5% oil 10% water 75% mud

Recovered _____ ft. of _____

Recovered _____ ft. of 14,000

Recovered _____ ft. of 14,000 Price Job _____

Recovered _____ ft. of _____ Other Charges _____

Remarks: 1740' Gas in pipe RELEASED Insurance _____

OCT 26 1995

Time Set Packer(s) 3:00 ^{AM} P.M. Time Started Off Bottom 5:05 ^{AM} P.M. Maximum Temperature 123

Initial Hydrostatic Pressure _____ (A) 2063 P.S.I.
Initial Flow Period _____ Minutes 20 (B) 97 P.S.I. to (C) 88 P.S.I.
Initial Closed In Period _____ Minutes 30 (D) 321 P.S.I.
Final Flow Period _____ Minutes 30 (E) 117 P.S.I. to (F) 97 P.S.I.
Final Closed In Period _____ Minutes 45 (G) 263 P.S.I.
Final Hydrostatic Pressure _____ (H) 2025 P.S.I.

AUG 30 1994



HALLIBURTON

JOB
SUMMARYHALLIBURTON
DIVISION
HALLIBURTON
LOCATIONIN IN CONTINUED
PRATH KSBILLED ON
TICKET NO.

614328

WELL DATA

FIELD _____ SEC. 7 TWP. 31 RNG. 13W COUNTY. Baebor STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

JOB DATA

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	24	8 3/8	K3	258
LINER					
TUBING					
OPEN HOLE					
PERFORATIONS					
PERFORATIONS					
PERFORATIONS					

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-31</u> TIME <u>2200</u>	DATE <u>5-31</u> TIME <u>2350</u>	DATE <u>6-1</u> TIME _____	DATE <u>6-1</u> TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>74221 McDuff</u>	<u>40037</u> <u>Oil</u>	<u>25555</u>
<u>G1622 Seba</u>	<u>4410</u> <u>Rm</u>	
<u>G1690 Bigler</u>	<u>4413</u> <u>Bulk</u>	

DEPARTMENT CMT
DESCRIPTION OF JOBSet 258' 8 3/8'sJOB DONE THRU: TUBING ☐ CASING ☒ ANNULUS ☐ TBG./ANN. ☐CUSTOMER REPRESENTATIVE X BuyerHALLIBURTON OPERATOR Amcoy COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	RELEASED	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>160</u>	<u>Poz</u>	<u>40/60</u>	<u>B</u>	<u>270601</u>	<u>37000</u>	<u>1.3</u>	<u>14</u>

FROM CONFIDENTIAL

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 10 REASON ROQ

PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL BBL.-GAL. 157
CEMENT SLURRY: BBL.-GAL. 37
TOTAL VOLUME: BBL.-GAL. _____

REMARKS _____

PAGE 43

CUSTOMER

WELL NO.

LEASE

JOB TYPE

TICKET NO

PAGE 43

FIELD OFFICE

**P.O. BOX 31
RUSSELL KS 67665**

CEMENTING LOG

STAGE: NC

STAGE NO.
CONFIDENTIAL

CEMENT DATA:

Spacer Type: _____

Amt. _____ Sk's Yield _____ ft³/sk Density _____ PPG _____

ORIGINAL

LEAD: Pump Time _____ hrs. Type 60/40 pot +
6% Gel Excess _____

Amt. 115 Sks Yield 1.58 ft³/sk Density 13.8 PPG

TAIL: Pump Time _____ hrs. Type _____

Excess

Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

WATER: Lead 7.8 / gals/sk Tail _____ gals/sk Total 21.5 Bbls

Pump Trucks Used 237 JUSTIN H

Bulk Equip. 242 John K

Float Equip: Manufacturer _____

Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity _____ Plugs Top Dry Hole Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG _____

Mud Type _____ Weight _____ PPG _____

Date 6-11-94 District Med. Longe Ks. Ticket No. 6400
Company Kobba Exploration Rig GD DAVIS
Lease C-LATKE Well No. 1-7
County Barber State KANSAS
Location MINGONA School House Field _____
3N - 1/2 2

CASING DATA: PTA ☒ Squeeze ☐
Surface ☐ Intermediate ☐ Production ☐ Liner ☐
Size _____ Type _____ Weight _____ Collar _____

Casing Depth: Top 8 5/8 250' Bottom

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size 7 1/8 T.D. 4320 ft. P.B. to 660 ft.

CAPACITY FACTORS: 100%

Casing: Bbls/Lin. ft. 0637 Lin. ft/Bbl. 15.7

Open Holes: Bbls/Lin. ft. 1.0602 Lin. ft./Bbl. 16.5993

Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32

Annulus: Bbls/Lin. ft. 0.0406 Lin. ft./Bbl. 24.6474

4 1/2 x 8 5/8 c Bbls/Lin. ft. 0440 Lin. ft./Bbl. 22.75

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE CASEY COATS

CEMENTER NEAL Rupp

[illegible]

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLS.

Taylor Printing, Inc., Pratt, KS

THANK YOU

NR