

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

ORIGINAL

API NO. 15- 189-21524-00

County Stevens

SW SW SW Sec. 25 Twp. 33S Rge. 36 X E

250' Feet from [X] (circle one) Line of Section

250' Feet from [X] (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or [SW] (circle one)

Lease Name Nix Observation Well # 1

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3023' KB 3034'

Total Depth 2855' PSTD 2854'

Amount of Surface Pipe Set and Cemented at 728 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from NA

feet depth to NA w/ NA sx cat.

Drilling Fluid Management Plan ALT / QR 10-19-92
(Data must be collected from the Reserve Pit)

Chloride content 8000 ppm Fluid volume 6000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name NA **RELEASED**

Lease Name _____ License No. _____

Quarter _____ Sec. NOV 21 1994 Twp. _____ S Rng. _____ E/W

County _____ **FROM CONFIDENTIAL**

Operator: License # 5208

Name: Mobil Oil Corporation

Address 2319 N. Kansas

City/State/Zip Liberal, KS 67901

Purchaser: NA

Operator Contact Person: Rae Kelly

Phone (316) 626-1160

Contractor: Name: Zenith Drilling Corp.

License: 5141

Wellsite Geologist: W. H. Jamieson

Designate Type of Completion
X New Well _____ Re-Entry SEP ¹⁹⁹³ Workover

Oil _____ SVD _____ SLOW _____
Gas _____ ENHR _____ SLOW _____
Dry X Other (Core, WSW, Expl., Cathodic, etc)
Test Well

CONFIDENTIAL

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SVD
_____ Plug Back _____ PSTD
_____ Comingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SVD or Inj?) _____ Docket No. _____

5-14-92 6-18-92 *Test Well

Spud Date _____ Date Reached TD _____ Completion Date _____

*Observation well. This well will not go on production.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby 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 R. Kelly

Title Environmental & Regulatory Technician Date 9/9/92

Subscribed and sworn to before me this 9th day of September 19 92.

Notary Public Sharon A. Cook

Date Commission Expires _____

SHARON A. COOK
NOTARY PUBLIC
STATE OF KANSAS
My Comm. Exp. 10-1-94

K.C.C. OFFICE USE ONLY
F X Letter of Confidentiality Attached
C X Wireline Log Received
R X Geologist Report Received
KANSAS CORPORATION COMMISSION
Distribution
KCC _____ SVD/Rep _____ NGPA
KCS _____ Plug _____ Other (Specify) _____

CONSERVATION DIVISION
WICHITA, KS Form ACO-1 (7-91)

Operator Name Mobil Oil Corporation

Lease Name Nix Observation

Well # 1

Sec. 25 Twp. 33S Rge. 36

East
 West

County Stevens

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
(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 All E.Logs Run:
Dual Induction/Focused Log
Density Log
Gamma Ray Log
Caliper Log

CASING RECORD

New Used 930

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	17.500	13.375	48#	728	CL C Lite	420 240	65:35:6+3%CC +3%CC
Production	12.250	8.625	32#	2579	CL C Lite	1000 160	65:35:6+3%CC +3% CC
Lining		5.500	15.5#	2146/ 2855	CL C	120	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	<u>03843</u>			
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	<u>3 VOM</u>			

PERFORATION RECORD - Bridge Plugs Set/Type

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1 SPF	2820-2828 2756-2775 2710-2724 2725-2684 2672-2676 2634-2647		

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. Observation Well Only Producing Method Flowing Pumping Gas Lift Other (Explain)

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

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Other (Specify) Cased and Grouted



Production Interval

ORIGINAL

NIX OBSERVATION WELL #1
SECTION 25-33S-36W
STEVENS COUNTY, KANSAS

FORMATION TOPS

Herrington	2634'
Paddock	2658'
U. Krider	2666'
L. Krider	2691'
Odell	2740'
Winfield	2748'
Gage	2785'
Towanda	2808'
Total Depth	2855'

SEP 8 1993
CONFIDENTIAL

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

RECEIVED
KANSAS CORPORATION COMMISSION

SEP 10 1992

CONSERVATION DIVISION
WICHITA, KS

TRILOBITE TESTING, L.L.C.

CONFIDENTIAL

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 1 Date 6/12/92
 Company MOBIL OIL CO. Zone HERINGTON
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested 2628-2652 Drill Pipe Size 4.5 XH
 Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 2623 Drill Collar - 2.25 Ft. Run 551
 Bottom Packer Depth 2628 Mud Wt. N/A lb/Gal.
 Total Depth 2652 Viscosity N/A Filtrate N/A

Tool Open @ 3:57 AM Initial Blow STRONG-BUILT TO BOTTOM AS TOOL OPENED/ISIBLED OFF
BLOW-SURFACE BLOW THROUGHOUT/GAUGED @ 44.8 MCF
 Final Blow BOTTOM OF BUCKET AS TOOL OPEN
GAS TO SURFACE IN 4 MIN/GAUGED @ 33.0 MCF

Recovery - Total Feet 3 Flush Tool? NO **RECEIVED**
 KANSAS CORPORATION COMMISSIONER.

Rec. 3 Feet of WATER **SEP 8 1993**
 Rec. _____ Feet of _____ **SEP 10 1992**
 Rec. _____ Feet of _____ **CONFIDENTIAL**
 Rec. _____ Feet of _____ **CONSERVATION DIVISION**
 Rec. _____ Feet of _____ **WICHITA, KS**

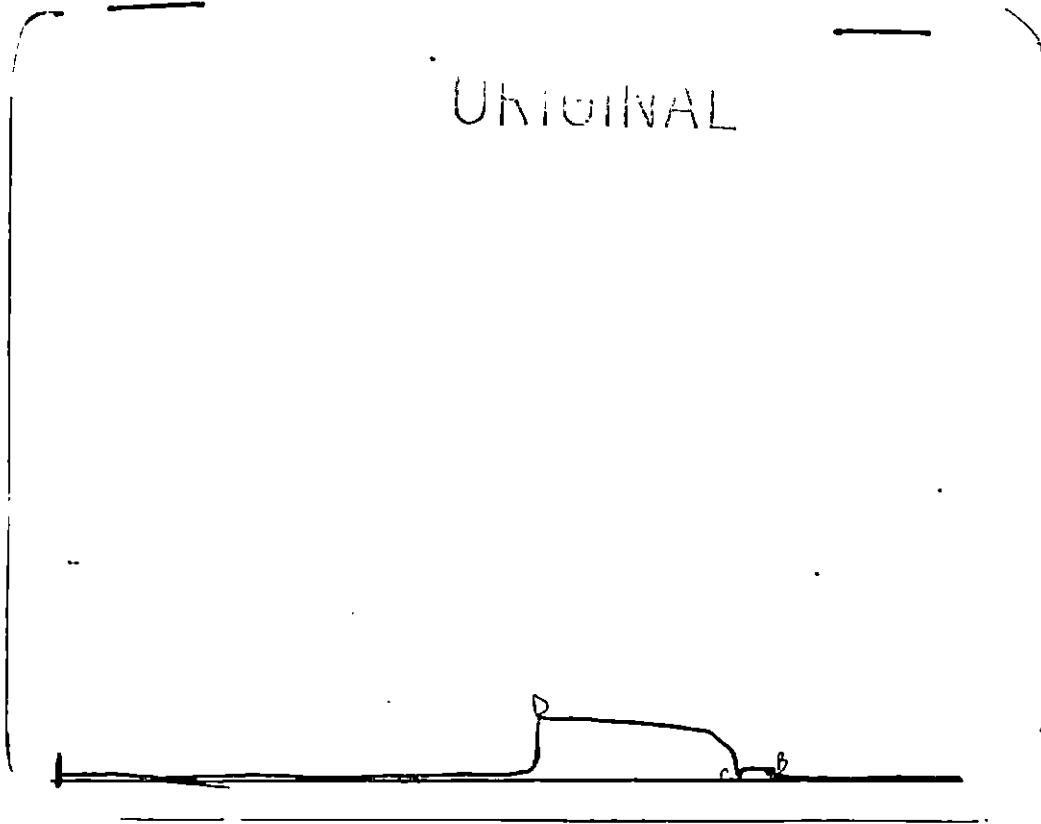
BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.2 @ 77.1 °F Chlorides 4700 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure 31.0 PSI @ (depth) 2649 w / Clock No. 27594
 (C) First Final Flow Pressure 19.2 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-in Pressure 242.1 PSI @ (depth) _____ w / Clock No. _____
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) **RELEASED** w / Clock No. _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening NOV 2 15 1994 Final Flow 360
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in **FROM CONFIDENTIAL** Final Shut-in _____

Our Representative TOM HORACEK

CHART PAGE

ORIGINAL



This is an actual photograph of recorder chart

SEP 8 1993

CONFIDENTIAL

	FIELD READING	OFFICE READING
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(A) INITIAL HYDROSTATIC MUD

(B) FIRST INITIAL FLOW PRESSURE	30	31
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(C) FIRST FINAL FLOW PRESSURE	30	19.2
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(D) INITIAL CLOSED-IN PRESSURE	247	242.1
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(E) SECOND INITIAL FLOW PRESSURE

(F) SECOND FINAL FLOW PRESSURE

(G) FINAL CLOSED-IN PRESSURE

(H) FINAL HYDROSTATIC MUD

RELEASED
NOV 21 1994
FROM CONFIDENTIAL

GAS VOLUME REPORT

ORIGINAL

MOBIL OIL CO.

NIX OBSERVATION #1

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
1st OPEN							
3	18	0.75	60.2	40	76	0.375	31
5	10	0.75	44.8	50	80	0.375	31.8
				60	82	0.375	32.2
				70	84	0.375	32.6
				80	84	0.375	32.6
2nd OPEN							
10	52	0.375	25.7	90	84	0.375	33
20	62	0.375	28	100	86	0.375	33.4
30	70	0.375	29.8	110	88	0.375	33.8
				120	90	0.375	33.8
				130	90	0.375	33.8
				140	90	0.375	33.8
				150	90	0.375	33.8
				180	90	0.375	33.8
				210	90	0.375	33.8
				240	90	0.375	33.8
				270	88	0.375	33.4
				300	86	0.375	33

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NOV 21 1994
FROM CONFIDENTIAL

Remarks:

GAS VOLUME REPORT

ORIGINAL

MOBIL OIL CO.

NIX OBSERVATION #1

DST # 1

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
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CONTINUED-PG 2

				315	86	0.375	33
				330	86	0.375	33
				345	86	0.375	33
				360	86	0.375	33

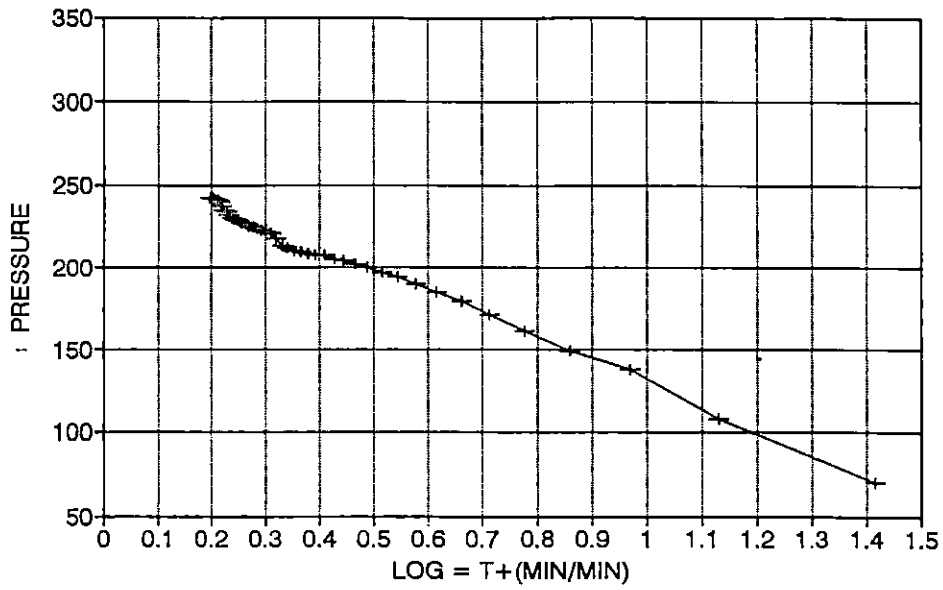
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Remarks: GAS TO SURFACE IN 4 MIN / GAS WILL BURN

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HORNER PLOT NIX OBSERVATION #1



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NIX OBSERVATION #1
INITIAL SHUTIN
120 TOTAL FLOW

DST #1

Slope $\frac{psi}{cycle}$
P * psi

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	70.4	1.415	70.4	26
6	107.8	1.130	37.4	14
9	137.8	0.970	30.0	9
12	149.1	0.860	11.3	7
15	161.2	0.778	12.1	6
18	171.0	0.713	9.8	5
21	179.3	0.660	8.3	5
24	184.6	0.615	5.3	4
27	189.9	0.577	5.3	4
30	194.4	0.544	4.5	4
33	196.7	0.515	2.3	3
36	199.7	0.489	3.0	3
39	202.0	0.466	2.3	3
42	204.2	0.445	2.2	3
45	205.0	0.426	0.8	3
48	207.3	0.409	2.3	3
51	207.3	0.393	0.0	2
54	208.0	0.378	0.7	2
57	209.5	0.365	1.5	2
60	210.3	0.352	0.8	2
63	211.8	0.341	1.5	2
66	213.3	0.330	1.5	2
69	217.9	0.320	4.6	2
72	220.5	0.310	2.6	2
75	221.7	0.301	1.2	2
78	222.4	0.293	0.7	2
81	223.2	0.285	0.8	2
84	224.7	0.277	1.5	2
87	225.4	0.270	0.7	2
90	226.2	0.263	0.8	2
93	227.0	0.257	0.8	2
96	228.5	0.251	1.5	2
99	229.2	0.245	0.7	2
102	230.0	0.239	0.8	2
105	232.3	0.234	2.3	2
108	233.8	0.229	1.5	2
111	234.5	0.224	0.7	2
114	236.8	0.220	2.3	2
117	239.4	0.215	2.6	2
120	240.6	0.211	1.2	2
123	241.4	0.207	0.8	2
126	242.1	0.203	0.7	2
129	242.1	0.199	0.0	2

ORIGINAL

SEP 3 8 1993

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RELEASED

NOV 21 1994

FROM CONFIDENTIAL

Mail Invoice To:
 Mobil E & P U.S. Inc
 P O Box 51720
 New Orleans, La

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL No. 4944

Test Ticket

70150-1270 Attn Payable Dept

Well Name & No. <u>Nix Observation #1</u>	Test No. <u>#1</u>	Date <u>6-12-92</u>
Company <u>Mobil</u>	Zone Tested <u>Herington</u>	
Address <u>2319 N Kansas Liberal Ks 67901</u>	Elevation _____	
Co. Rep./Geo. <u>Jay Cunningham</u>	cont. <u>Zenith Drlys #7</u>	Est. Ft. of Pay _____
Location: Sec. <u>25</u>	Twp. <u>36s</u>	Rge. <u>36w</u> co. <u>Stevens</u> state <u>Ks.</u>
No. of Copies <u>5</u>	Distribution Sheet Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Turnkey Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Evaluation _____

Interval Tested <u>2628-2652</u>	Drill Pipe Size <u>4.5 x-Hole</u>
Anchor Length <u>24'</u>	Top Choke — 1" Bottom Choke — 3/4"
Top Packer Depth <u>2623</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>2628</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>2652</u>	Drill Collar — 2.25 Ft. Run <u>551'</u>
Mud Wt. <u>N/A</u> lb/gal.	Viscosity <u>MA</u> Filtrate <u>N/A</u>

Tool Open @ 3:57 AM Initial Blow strong blow - built to bottom of bucket as tool opened.
ISI - bled off blow - surface blow through cut. Gauged @ 44.8 mcf
 Final Blow bottom of bucket as tool opened

GTS in 4 min Gauged @ 33.0 mcf

Recovery — Total Feet 3 Feet of Gas in Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	% gas	% oil	% water	% mud
<u>3</u> Feet Of <u>water</u>				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of <u>SEP 8 1993</u>				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

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BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 2 @ 77.1 °F chlorides 4,700 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure 30 PSI @ (depth) 2649 w/Clock No. 27594
 (C) First Final Flow Pressure 30 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-in Pressure 247 PSI @ (depth) _____ w/Clock No. _____
 (E) Second Initial Flow Pressure RELEASED PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure NOV 21 1994 PSI Initial Opening 5 Test X 550
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in 120 Jars X 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 STATEMENTS OR OPINION CONCERNING THE RESULTS 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.

Final Flow 360 Safety Joint X 50
 Final Shut-in _____ Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By [Signature]
 Our Representative Tom Horvath

Extra Packer _____
 Other _____
 TOTAL PRICE \$ 800

ORIGINAL

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 2 Date 6/13/92
 Company MOBIL OIL CO. Zone UPR KRIDER
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested	<u>2683-2694</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>11</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2678</u>	Drill Collar - 2.25 Ft. Run	<u>387</u>
Bottom Packer Depth	<u>2683</u>	Mud Wt.	<u>N/A</u> lb/Gal.
Total Depth	<u>2694</u>	Viscosity	<u>N/A</u> Filtrate <u>N/A</u>

Tool Open @ 9:47 AM Initial Blow WEAK BLOW BUILT TO 8"

Final Blow _____

Recovery - Total Feet 0 Flush Tool? NO

Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

SEP 8 1993
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BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

RELEASED

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

NOV 21 1994

(D) Initial Shut-in Pressure _____ PSI @ (depth) _____ w / Clock No. _____

FROM CONFIDENTIAL

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 15 Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 480 Final Shut-in _____

Our Representative TOM HORACEK

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

№ 4945

Test Ticket

Well Name & No. Nix Observation #1 Test No. #2 Date 6-13-92
 Company Mobil Zone Tested Upper Krider
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Drly #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36 Rge. 36 Co. Stevens State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2683 - 2694 Drill Pipe Size 4.5 x-Hole
 Anchor Length 11' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2678 Hole Size — 77/8" _____ Rubber Size — 63/4" _____
 Bottom Packer Depth 2683 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2694 Drill Collar — 2.25 Ft. Run 387'
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____
 Tool Open @ 9:47 AM Initial Blow weak blow built to 8 in.

Final Blow _____

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>0</u>		<u>NO</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

- (A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____
- (B) First Initial Flow Pressure **RELEASED** _____ PSI @ (depth) _____ w/Clock No. _____
- (C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
- (D) Initial Shut-In Pressure **NOV 21 1994** _____ PSI @ (depth) _____ w/Clock No. _____
- (E) Second Initial Flow Pressure **FROM CONFIDENTIAL** _____ PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure _____ PSI Initial Opening 15 Test X
- (H) Final Hydrostatic Mud _____ PSI Initial Shut-in 480 Jars X

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 STATEMENTS OR OPINION CONCERNING THE RESULTS 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.

Final Flow _____ Safety Joint X
 Final Shut-in _____ Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By Tom Penning
 Our Representative Tom Horvath

TOTAL PRICE \$ 800.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 3 Date 6/14/92
 Company MOBIL OIL CO. Zone LWR KRIDER
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS Est. Ft. of Pay _____
 State KS

Interval Tested 2706-2734 Drill Pipe Size 4.5 XH
 Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 2701 Drill Collar - 2.25 Ft. Run 387
 Bottom Packer Depth 2706 Mud Wt. N/A lb/Gal.
 Total Depth 2734 Viscosity N/A Filtrate N/A

Tool Open @ 7:50 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 1
MINUTE-GAS TO SURFACE-GAUGED @35.5 MCF
 Final Blow STRONG BLOW-BOTTOM OF BUCKET AS TOOL OPENED
GAUGED @ 34.3 MCF

Recovery - Total Feet 1 Flush Tool? NO

Rec. 1 Feet of WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.7 @ 60 °F Chlorides 10000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050

(B) First Initial Flow Pressure _____ PSI @ (depth) 2731 w / Clock No. 27594

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(D) Initial Shut-in Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 10 Final Flow 170

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 300 Final Shut-in OUT

Our Representative TOM HORACEK

SEP 8 1993

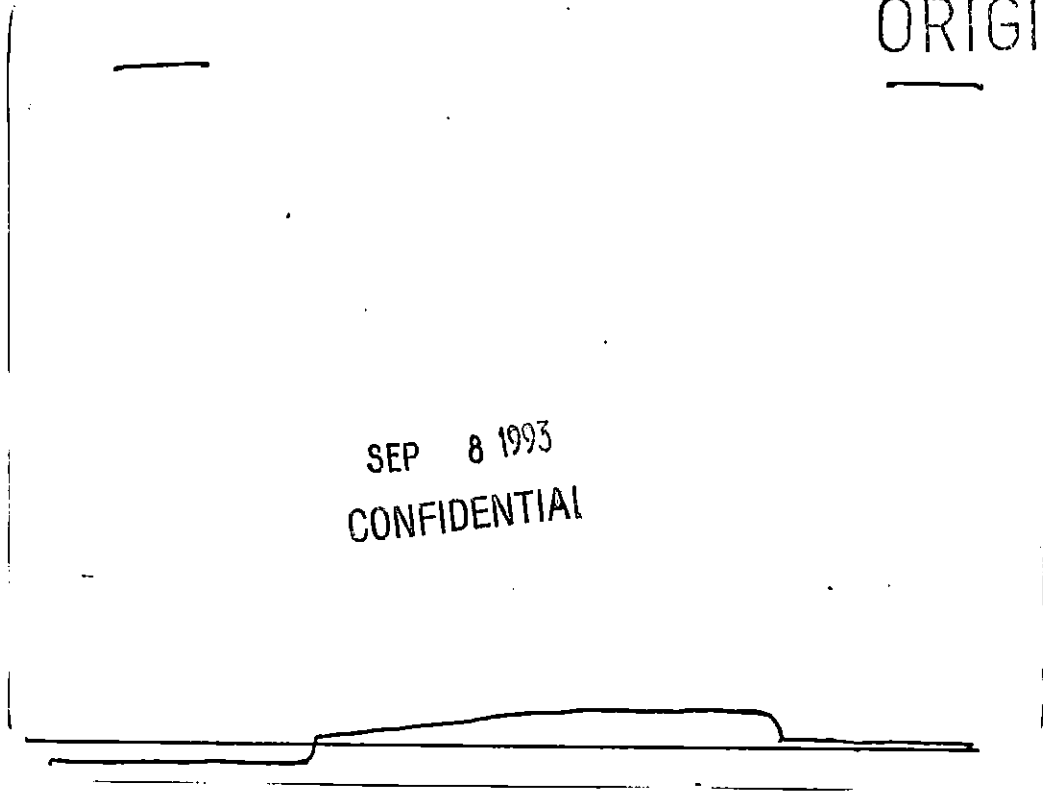
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ORIGINAL



SEP 8 1993
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This is an actual photograph of recorder chart

FIELD READING OFFICE READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

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GAS VOLUME REPORT

ORIGINAL

MOBIL OIL CO.

NIX OBSERVATION #1

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
10	32	0.5	35.5	10	30	0.5	34.3
				20	26	0.5	31.9
				30	26	0.5	31.9
				40	26	0.5	31.9
				50	26	0.5	31.9
				60	26	0.5	31.9
				70	30	0.5	34.3
				80	28	0.5	33.2
				90	28	0.5	33.2
				100	28	0.5	33.2
				110	28	0.5	33.2
				120	28	182	33.2
				130	28	0.5	33.2
				140	28	0.5	33.2
				150	30	0.5	34.3
				160	30	0.5	34.3
				170	30	0.5	34.3

SEP 8 1993
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Remarks: GAS TO SURFACE IN 8 MIN / GAS WILL BURN

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 4946

Well Name & No. Nix Observation #1 Test No. #3 Date 6-14-92
 Company Mobil Zone Tested Lower Knicker
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Dr. #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36 Rge. 36 Co. Stevens State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2706-2734 Drill Pipe Size 4.5 x - Hole
 Anchor Length 28' Top Choke - 1" _____ Bottom Choke - 3/4" _____
 Top Packer Depth 2701 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 2706 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 2734 Drill Collar - 2.25 Ft. Run 387'
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____

Tool Open @ 7:50 am Initial Blow strong blow - built to bottom of bucket in 1 min
G.T.S in 8 min. Gauged @ 35.5 MPa

Final Blow strong blow - bottom of bucket as tool opened
Gauged @ 34.3 MPa

Recovery - Total Feet 1' Feet of Gas in Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____				
Rec. <u>1'</u> Feet Of _____				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

SEP 8 1993
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BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .7 @ 60 °F chlorides 10000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure _____ PSI @ (depth) RELEASED w/Clock No. 27594
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-in Pressure _____ PSI @ (depth) NOV 21 1994 w/Clock No. _____
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening 10 Test X
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in 300 Jars X

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 STATEMENTS OR OPINION CONCERNING THE RESULTS 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.

Final Flow 170 Safety Joint X
 Final Shut-in out Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By M. J. Canning
 Our Representative Tom Hirsch

TOTAL PRICE \$ 800.

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 4 Date 6/15/92
Company MOBIL OIL CO. Zone ODELL
Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested	<u>2737-2743</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>6</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2732</u>	Drill Collar - 2.25 Ft. Run	<u>387</u>
Bottom Packer Depth	<u>2737</u>	Mud Wt.	<u>N/A</u> lb/Gal.
Total Depth	<u>2743</u>	Viscosity	<u>N/A</u> Filtrate <u>N/A</u>

Tool Open @ 4:08 AM Initial Blow NO BLOW

Final Blow STRONG BLOW BUILT TO BOTTOM OF BUCKET IN 2 MINUTES
DECREASED TO A 2" BLOW

Recovery - Total Feet 1 Flush Tool? NO

Rec. 1 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of SEP 8 1995
Rec. _____ Feet of CONFIDENTIAL
Rec. _____ Feet of _____

BRT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.6 @ 65 °F Chlorides 11000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(D) Initial Shut-in Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 120

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 300 Final Shut-in _____

Our Representative TOM HORACEK

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

N^o 4947

Well Name & No. Nix Observation #1 Test No. #4 Date 6-15-92
 Company Mobil Zone Tested Odell
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Drls #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36 Rge. 36 Co. Stevens State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2732-2743 Drill Pipe Size 4.5 X-Hole
 Anchor Length 6' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2732 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2737 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2743 Drill Collar — 2.25 Ft. Run 387'
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____
 Tool Open @ 4:08 AM Initial Blow NO blow

Final Blow Strong blow built to bottom of bucket in 2 min. decreased to a 2 in blow.

Recovery — Total Feet 1' Feet of Gas In Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. <u>1'</u> Feet Of <u>water</u>	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .6 @ 65 °F Chlorides 14000 ppm received chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____
 (B) First Initial Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-In Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In 300 Jars X

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 STATEMENTS OR OPINION CONCERNING THE RESULTS 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.

Final Flow 120 Safety Joint X
 Final Shut-In _____ Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By M.J. Cunningham
 Our Representative Tom Horacek

TOTAL PRICE \$ 900.00

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 5 Date 6/15/92
 Company MOBIL OIL CO. Zone WINFIELD
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested 2762-2782 Drill Pipe Size 4.5 XH
 Anchor Length 20 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 2757 Drill Collar - 2.25 Ft. Run 387
 Bottom Packer Depth 2762 Mud Wt. N/A lb/Gal.
 Total Depth 2782 Viscosity N/A Filtrate N/A

Tool Open @ 1:06 AM Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET IN 1
MINUTE- GAS TO SURFACE/GAUGED @115 MCF
 Final Blow BOTTOM OF BUCKET AS TOOL OPENED-GAUGED @141 MCF

Recovery - Total Feet 1 Flush Tool? NO

Rec. 1 Feet of WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.6 @ 66 °F Chlorides 11000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050

(B) First Initial Flow Pressure 15.1 PSI @ (depth) 2779 w / Clock No. 27594

(C) First Final Flow Pressure 15.1 PSI AK1 Recorder No. _____ Range _____

(D) Initial Shut-in Pressure 143.6 PSI @ (depth) _____ w / Clock No. _____

(E) Second Initial Flow Pressure 23.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 23.1 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 150

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 300 Final Shut-in 0

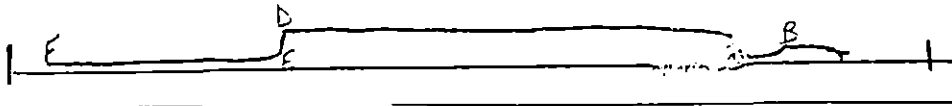
Our Representative TOM HORACEK

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NOV 21 1994.

FROM CONFIDENTIAL

SEP 8 1993
 CONFIDENTIAL



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		
(B) FIRST INITIAL FLOW PRESSURE	14	15.1
(C) FIRST FINAL FLOW PRESSURE	14	15.1
(D) INITIAL CLOSED-IN PRESSURE	141	143.6
(E) SECOND INITIAL FLOW PRESSURE	22	23.1
(F) SECOND FINAL FLOW PRESSURE	22	23.1
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD		

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GAS VOLUME REPORT

ORIGINAL

MOBIL OIL CO.

NIX OBSERVATION #1

DST # 5

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	26	1	132	5	34	1	151
10	22	1	121	10	34	1	151
15	22	1	121	15	34	1	151
20	20	1	115	20	34	1	151
25	20	1	115	50	30	1	141
30	20	1	115	80	32	1	146
				110	30	1	141
				140	30	1	141
				150	30	1	141

SEP 8 1993
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NOV 21 1994

FROM CONFIDENTIAL

Remarks: GAS TO SURFACE IN 5 MIN / GAS WILL BURN

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 4948

Well Name & No. Nix Observation #1 Test No. #5 Date 6-15-92
 Company Mobil Zone Tested Winfield
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Drly #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36 Rge. 36 Co. Stevens state KS
 No. of Copes _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2762-2782 Drill Pipe Size 4.5 x-Hole
 Anchor Length 20 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 2757 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2762 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2782 Drill Collar — 2.25 Ft. Run 387
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____

Tool Open @ 1:06 AM Initial Blow strong blow - built to bottom of bucket 1 min.
GTS in 5 min. Gauged @ 115 mck
 Final Blow Bottom of bucket as tool opened.
 Gauged @ 141 mck

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?	% gas	% oil	% water	% mud
<u>1'</u>		<u>NO</u>				
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						
Rec. <u>1'</u> Feet Of <u>water</u>						
Rec. _____ Feet Of _____						
Rec. _____ Feet Of _____						

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.6 @ 66 °F Chlorides 11000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure 14 PSI @ (depth) 2729 w/Clock No. 27594
 (C) First Final Flow Pressure 14 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-In Pressure 141 PSI @ (depth) _____ w/Clock No. _____
 (E) Second Initial Flow Pressure 22 PSI AK1 Recorder No. _____ Range NOV 2nd 1994
 (F) Second Final Flow Pressure 22 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 30 FROM CONFIDENTIAL
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In 300 Jars X

Final Flow 150 Safety Joint X
 Final Shut-In -0 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

Approved By [Signature]
 Our Representative Tom Horacek

TRILOBITE TESTING, L.L.C.

ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 6 Date 6/16/92
 Company MOBIL OIL CO. Zone GAGE
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested	<u>2790-2798</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>8</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2785</u>	Drill Collar - 2.25 Ft. Run	<u>387</u>
Bottom Packer Depth	<u>2790</u>	Mud Wt.	<u>N/A</u> lb/Gal.
Total Depth	<u>2798</u>	Viscosity	<u>N/A</u> Filtrate <u>N/A</u>

Tool Open @ 7:08 PM Initial Blow WEAK BLOW THROUGHOUT
 Final Blow NO BLOW

Recovery - Total Feet 0 Flush Tool? NO

Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

SEP 8 1993
 CONFIDENTIAL

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____
 (B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-in Pressure _____ PSI @ (depth) NOV 21 1994 w / Clock No. _____
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. FROM CONFIDENTIAL Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening 30 Final Flow 150
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in 300 Final Shut-in 0

Our Representative TOM HORACEK

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No 4949

Well Name & No. Nix Observation #1 Test No. 46 Date 6-16-92
 Company Mobil Zone Tested Gage
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Dr. #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36 Rge. 36 Co. Stearns State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2790-2798 Drill Pipe Size 4.5 x-Hole
 Anchor Length 8' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2785 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2790 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2798 Drill Collar — 2.25 Ft. Run 387'
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____
 Tool Open @ 7:08 pm Initial Blow weak blow through out.
 Final Blow NO blow

Recovery — Total Feet 0 Feet of Gas In Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	% gas	% oil	% water	% mud
Rec. _____ Feet Of _____				
Rec. <u>0</u> Feet Of _____				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

SEP 8 1993
CONFIDENTIAL

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI Ak1 Recorder No. _____ Range _____
 (B) First Initial Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-In Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In 300 Jars X

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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 STATEMENTS OR OPINION CONCERNING THE RESULTS 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.

Final Flow 150 Safety Joint X
 Final Shut-In 0 Straddle _____
 Clrc. Sub RELEASED

Approved By Tom Dunning
 Our Representative Tom Horacek

Sampler NOV 21 1994
 Extra Packer _____
 other FROM CONFIDENTIAL
 TOTAL PRICE \$ 800.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name NIX OBSERVATION #1 Test No. 7 Date 6/17/92
 Company MOBIL OIL CO. Zone TOWANDA
 Address 2319 N KANSAS LIBERAL KS 67901 Elevation _____
 Co. Rep./Geo. JAY CUNNINGHAM Cont. ZENITH DRLG RIG #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 36S Rge. 36W Co. STEVENS State KS

Interval Tested	<u>2822-2842</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>20</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2817</u>	Drill Collar - 2.25 Ft. Run	<u>387</u>
Bottom Packer Depth	<u>2822</u>	Mud Wt.	<u>N/A</u> lb/Gal.
Total Depth	<u>2842</u>	Viscosity	<u>N/A</u> Filtrate <u>N/A</u>

Tool Open @ 3:55 PM Initial Blow STRONG BLOW BUILT TO BOTTOM IN 1 MINUTE
GAS TO SURFACE IN 8 MINUTES-GAUGED @30.7 MCF
 Final Blow BOTTOM OF BUCKET AS TOOL OPENED-GAUGED @34.3 MCF

Recovery - Total Feet 3 Flush Tool? NO

Rec. 3 Feet of WATER
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

SEP 8 1993
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BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.6 @ 55 °F Chlorides 1100 ppm Recovery Chlorides _____ ppm System

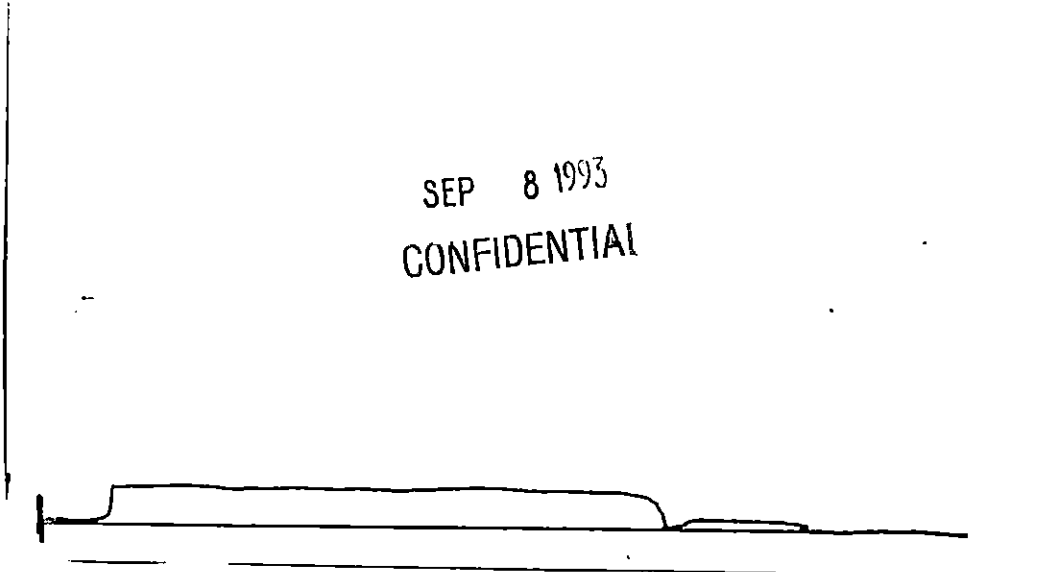
(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure 15.2 PSI @ (depth) 2839 w/ Clock No. 27594
 (C) First Final Flow Pressure 15.2 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-in Pressure 166.9 PSI @ (depth) _____ w/ Clock No. _____
 (E) Second Initial Flow Pressure 23.4 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 23.4 PSI @ (depth) _____ w/ Clock No. _____
 (G) Final Shut-in Pressure _____ PSI Initial Opening 15 Final Flow 90
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-in 360 Final Shut-in 600

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

Our Representative TOM HORACEK



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		
(B) FIRST INITIAL FLOW PRESSURE	14	15.2
(C) FIRST FINAL FLOW PRESSURE	14	15.2
(D) INITIAL CLOSED-IN PRESSURE	164	166.9
(E) SECOND INITIAL FLOW PRESSURE	22	23.4
(F) SECOND FINAL FLOW PRESSURE	22	23.4
(G) FINAL CLOSED-IN PRESSURE		
(H) FINAL HYDROSTATIC MUD		

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

GAS VOLUME REPORT

ORIGINAL

MOBIL OIL CO.

NIX OBSERVATION #1

DST # 7

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
2				5	28	0.5	33.2
4	38	0.25	10.4	10	26	0.5	31.9
6	42	0.5	40.7	15	26	0.5	31.9
8	34	0.5	36.5	20	26	0.5	31.9
10	30	0.5	34.3	25	28	0.5	31.9
12	26	0.5	31.9	30	28	0.5	31.9
14	24	0.5	30.7	35	28	0.5	33.2
15	24	0.5	30.7	40	28	0.5	33.2
				45	30	0.5	34.3
				50	30	0.5	34.3
				55	30	0.5	34.3
				60	30	0.5	34.3
				75	30	0.5	34.3
				90	30	0.5	34.3

SEP 8 1993
CONFIDENTIAL

RELEASED

NOV 21 1994

Remarks: GAS TO SURFACE IN 8 MIN / GAS WILL BURN FROM CONFIDENTIAL

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 4950 Date: 6/17/92
 Company: MOBIL OIL CO.
 Lease: NIX OBSERVATION #1 Test No.: 7
 County: STEVENS Sec.: 25 Twp.: 36S Rng.: 36W

SAMPLER RECOVERY

Gas 4000
 Oil
 Mud
 Water
 Other 5 cu ft/gas
 Pressure 125
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 34000
 Resistivity 0.58 ohms@ 72 F
 Viscosity N/A
 Mud Wt. N/A
 Filtrate N/A
 Other FOAM

SEP 8 1993
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SAMPLER ANALYSIS

Resistivity ohms@ F
 Chlorides ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No. 4950

Well Name & No. Nix Observation #1 Test No. 27 Date 6-17-92
 Company Mobil. Zone Tested Towanda
 Address _____ Elevation _____
 Co. Rep./Geo. _____ Cont. Zenith Drils #7 Est. Ft. of Pay _____
 Location: Sec. 25 Twp. 33 Rge. 36 Co. Stevens State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2822-2842 Drill Pipe Size 4.5 x-Hole
 Anchor Length 20 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 2817 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2822 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2842 Drill Collar — 2.25 Ft. Run 387
 Mud Wt. _____ lb/gal. Viscosity _____ Filtrate _____

Tool Open @ 3:55 pm Initial Blow strong blow built to bottom in 1 min.
GTS in 8 min. Gaged @ 30.7 mcf
 Final Blow Bottom of bucket as tool opened

Recovery — Total Feet 3' Gaged @ 34.3 mcf
 Feet of Gas In Pipe _____ Flush Tool? NO

Rec. _____ Feet Of _____	% gas	% oil	% water	% mud
Rec. _____ Feet Of _____				
Rec. <u>3'</u> Feet Of <u>water</u>				
Rec. _____ Feet Of _____				
Rec. _____ Feet Of _____				

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .6 @ 55 °F Chlorides 11000 ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 24174 Range 3050
 (B) First Initial Flow Pressure 14 PSI @ (depth) 2839 w/Clock No. 27594
 (C) First Final Flow Pressure 14 PSI AK1 Recorder No. _____ Range _____
 (D) Initial Shut-In Pressure 164 PSI @ (depth) _____ w/Clock No. RELEASED
 (E) Second Initial Flow Pressure 22 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 22 PSI @ (depth) _____ w/Clock No. NOV 21 1994
 (G) Final Shut-In Pressure _____ PSI Initial Opening 15 Test X
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In 360 Jars X

Final Flow 90 Safety Joint X
 Final Shut-In 600 Straddle _____
 Circ. Sub _____
 Sampler X
 Extra Packer _____
 Other _____

Approved By [Signature]
 Our Representative Tom Horvath

**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. **216954**

DISTRICT Liberal Ks

DATE 5-16-92

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Mobil Oil Corp (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1st LEASE Nic OBSERVATION SEC. 25 TWP. 33 RANGE 36^w
FIELD _____ COUNTY Stevens STATE Ks OWNED BY Mobil Oil Corp

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH _____ MUD WEIGHT _____
BORE HOLE _____ SEP 8 1993
INITIAL PROD: OIL _____ BPD, GAS _____ MCF
PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		48#	13 3/8	KB	731'	
LINER						
TUBING						
OPEN HOLE			17 1/2	GL	735	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Cement 13 3/8 w/ 420^{sk} Prem Plus LTWT 3% CL
240^{sk} Prem Plus
Displacement w/ 109 lbs/lb H₂O

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said **RELEASED** mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton shall not be liable for the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance of the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER
DATE _____
TIME _____ A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

Job No 500 BLS.
CONFIDENTIAL

ORIGINAL

CUSTOMER <i>Mobil Oil Corp.</i>	DATE <i>5-19-92</i>	F.R.# <i>2240306</i>	SER. SUP. <i>ARRINGTON</i>	TYPE JOB <i>L/S</i>
LEASE & WELL NAME-OCSG <i>Max OBSERVATION #1</i>	LOCATION <i>Perryton</i>	COUNTY-PARISH-BLOCK <i>STEVENS - KANSAS</i>		
DISTRICT <i>Perryton</i>	DRILLING CONTRACTOR RIG # <i>CHEYENNE 1</i>	OPERATOR <i>SAME</i>		

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
					SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
	<i>8 5/8 - 5 1/2</i>	<i>6.S. - F.C. - CENT.</i>									
		<i>1000 - PACESETTER lite "C", 3% C.C.</i>		<i>0</i>	<i>12.4</i>	<i>1.99</i>	<i>6.8</i>	<i>5+</i>	<i>354</i>	<i>262</i>	
		<i>160 - CLASS "C", 3% C.C.</i>		<i>2250</i>	<i>14.8</i>	<i>1.32</i>	<i>6.3</i>	<i>3 1/2</i>	<i>38</i>	<i>24</i>	

SEP 8 1993

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Available Mix Water *300* Bbl. Available Displ. Fluid *500* Bbl. TOTAL *892-288*

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	DEPTH	SIZE	WGT.	DEPTH	SHOE	FLOAT	STAGE		
<i>12 1/4</i>	<i>40</i>	<i>2580</i>	<i>8 5/8</i>	<i>24</i>	<i>K55 2590</i>				<i>2580</i>	<i>2540</i>			
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	DEPTH	BRAND & TYPE			TOP	BTM	SIZE	THREAD	TYPE	WGT.		
<i>13 3/8</i>	<i>54</i>	<i>K55 235</i>						<i>8 5/8</i>	<i>8"</i>	<i>Mud</i>	<i>9.3</i>		
CAL. DISPL. VOL.-Bbl.				CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE
			<i>154.9</i>								<i>H2O</i>	<i>8.3</i>	<i>Rib</i>

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	
<i>18:11</i>	<i>200</i>		<i>6</i>	<i>25</i>		<i>1500 PSI</i>	<i>1803</i>
<i>18:15</i>	<i>200</i>		<i>6</i>	<i>392</i>			
<i>19:29</i>						<i>CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/></i>	
<i>19:31</i>	<i>100</i>		<i>5/4</i>	<i>0</i>			
<i>20:07</i>	<i>800</i>		<i>2.5</i>	<i>162</i>			
<i>20:08</i>	<i>0</i>						

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WICHITA, KS
Frank
Dave

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.
<i>(Y) N</i>	<i>800</i>	<i>(Y) N</i>	<i>560</i>	<i>70</i>	<i>0</i>	<i>0</i>	<i>D. Arrington</i>
							CUSTOMER REP.
							<i>J. Amundson</i>

JOB LOG

FORM 2013-2

WELL NO. 1# LEASE Nis Observation TICKET NO. 216954
 CUSTOMER Mobil Oil Corp PAGE NO. 1
 JOB TYPE 13 3/8 SURFACE DATE 5-16-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0120 NOW 0315							ORIGINAL Time Called Time Ready Time outloc. Rig Drill Surface Hole
	0915							Start casing in hole
	1130							Casing in hole
	1131							SEP 8 1993 CONFIDENTIAL Hook up to circulate casing.
	1140							Circulate casing w/ Rig Pumps
	1143							Circulate fluid to ground level
	1205							Hook up to Pump Truck
	1210	6	25			180		START WATER ahead of cement
	1214	6.8				240		START Mixing Cement.
	1234		148.85			200		START Tail Cement
	1245	6.2	56.43			200		Finish Mixing Cement
	1246		205.27		Total 180	0		SHUT DOWN Drop Plug.
	1247	6 4.7 Avg	109.0			50		START Displacement wash Pump's lines
	1315					200		Plug Down Float 'Did Not' Hold Shut in Valve & Circulate Cement To the PIT
								RELEASED NOV 21 1994 FROM CONFIDENTIAL
								Thanks For Calling Halliburton Services D. Carter Crew
								RECEIVED KANSAS CORPORATION COMMISSION SEP 10 1992 CONSERVATION DIVISION WICHITA, KS

MSD991

*** PRISM ***
Primary Cementing Report

Page 1

Lease: NIX OBSERVATION WELL Well #: 1 Well ID: 0042217
Field: HUGOTON State: KS County: STEVENS
AP# #: 15-189-21524-00 Ppty ID: 0318900 OCSG #:

ORIGINAL

=====
Cementing Job Information
=====

Date: 05/16/1992 Starting Time: 11:30 Ending Time: 13:15

Cementing Company: HALLIBURTON District: LIBERAL, KANSAS

Cementing Company Rating (1 to 10, 10 = Best): 9

Was top plug dropped? Y
Was bottom plug dropped? N
Did plug bump? Y
Was there full circulation while pumping? Y
Amount of cement returns to surface: 2 Bbls
Did floats hold? N
Flow regime: LAMINAR

Was the pipe reciprocated before cementing? N
Was the pipe reciprocated during cementing? N
Was the pipe rotated before cementing? N
Was the pipe rotated during cementing? N
If pipe was rotated, Type of rotation equipment:
Torque on rotated pipe: ft/lbs
Rotation Speed: RPM

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Job Remarks:

=====
Stage Information
=====

Stage No.: 1

Casing O.D.: 13.375 In.
Hole Size: 17.500 In.
Estimated Top of Cement for this stage: 0 Ft.
Estimated Bottom of Cement for this stage: 735 Ft.
Time to mix and pump this stage: (Hr:Min)
Average Pump Rate: 6.8 BPM
Maximum Pump Pressure: 240 PSIG
Foam Cement? N

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Lead Composition: CLASS C LITE 65/35/6 CON 3% CC
Tail Composition: CLASS C CON 3% CC

	Lead	Tail
	----	----
No. of Sacks	420	240
Slurry Yields (CuFt/Sk)	1.99	1.32
Slurry Density (Ppg)	12.4	14.8
Slurry Volume (Bbl)	149.0	56.4
Mix Water Amount (Gal/SK)	10.97	6.32
Mix Water Type	FRESH	FRESH
Thickening Time (Hr:Min)	6:15	2:20
12-Hr Compressive Strength (PSI)		
24-Hr Compressive Strength (PSI)		
Compressive Strength Test Temperature (F)	80	80
Fluid Loss (cc)	800	800
Free Water (cc)		

=====
Flush Information
=====

	Density	Volume	Description
	(PPG)	(Bbls)	-----
Preflush	8.3	25.0	FRESH WATER
Flush			
Postflush			
Displacement	8.3	109.0	FRESH WATER
Displacement Rate:	4.7 BPM		

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WICHITA, KS

MSD991

Primary Cementing Report

Page 2

Lease: NIX OBSERVATION WELL

Well #: 1

Well ID: 0042217

ORIGINAL

Stage Remarks:

=====

Report Generated on: 08/27/92 @ 08:07 End of Report.....

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WICHITA, KS

Primary Cementing Report

Lease: NIX OBSERVATION WELL Well #: 1 Well ID: 0042217
Field: HUGOTON State: KS County: STEVENS
AP# #: 15-189-21524-00 Pty ID: 0318900 OCSG #:

ORIGINAL

=====
Cementing Job Information
=====

Date: 05/19/1992 Starting Time: 17:15 Ending Time: 20:00

Cementing Company: WESTERN District: GUYMON, OK

Cementing Company Rating (1 to 10, 10 = Best): 8

Was top plug dropped? Y
Was bottom plug dropped? Y
Did plug bump? Y
Was there full circulation while pumping? Y
Amount of cement returns to surface: 1 Bbls
Did floats hold? Y
Flow regime: LAMINAR

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Was the pipe reciprocated before cementing? Y
Was the pipe reciprocated during cementing? Y
Was the pipe rotated before cementing? N
Was the pipe rotated during cementing? N
If pipe was rotated, Type of rotation equipment:
Torque on rotated pipe: ft/lbs
Rotation Speed: RPM

Job Remarks:

=====
Stage Information
=====

Stage No.: 1

Casing O.D.: 8.625 In.
Hole Size: 12.250 In.
Estimated Top of Cement for this stage: 0 Ft.
Estimated Bottom of Cement for this stage: 2580 Ft.
Time to mix and pump this stage: 6:15 (Hr:Min)
Average Pump Rate: 6.0 BPM
Maximum Pump Pressure: 1200 PSIG
Foam Cement? N

SEP 8 1993
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Lead Composition: CLASS C LITE 65/35/6 CON 3% CC
Tail Composition: CLASS C CON 3% CC

Table with 3 columns: Property, Lead, Tail. Rows include No. of Sacks, Slurry Yields, Slurry Density, Slurry Volume, Mix Water Amount, Mix Water Type, Thickening Time, Compressive Strength, Compressive Strength Test Temperature, Fluid Loss, Free Water.

=====
Flush Information
=====

Table with 4 columns: Density (PPG), Volume (Bbls), Description, Displacement Rate. Rows include Preflush, Flush, Postflush, Displacement.

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SEP 10 1992

CONSERVATION DIVISION
WICHITA, KS

MSD991

Primary Cementing Report

Page 2

Lease: NIX OBSERVATION WELL

Well #: 1

Well ID: 0042217

Stage Remarks:

ORIGINAL

=====
Report Generated on: 08/27/92 @ 08:07 End of Report.....

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WICHITA, KS