

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5208  
Name: Exxon Mobil Oil Corporation \*  
Address: P. O. Box 4358  
City/State/Zip: Houston, TX 77210-4358  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Beverly Roppolo  
Phone: (281) 654-1943  
Contractor: Name: Key Energy SERVICES  
License: N. A.  
Wellsite Geologist: N. A.

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JUL 07 2003  
KCC WICHITA

API No. 15 - 189-21906 - 00 - 01  
County: Stevens  
SE, NWSW Sec. 32 Twp. 33 S. R. 37  East  West  
1500 FSL feet from (S) / N (circle one) Line of Section  
1250 FWL feet from E / (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW (SW)  
Lease Name: E. WILSON #1 UNIT Well #: 3  
Field Name: Hugoton  
Producing Formation: Chase  
Elevation: Ground: 3143 Kelly Bushing: 3153  
Total Depth: 2910 Plug Back Total Depth: 2831 (NEW)  
Amount of Surface Pipe Set and Cemented at 702 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set N. A. Feet  
If Alternate II completion, cement circulated from N. A.  
feet depth to N. A. w/ N. A. sx cmt.

Drilling Fluid Management Plan REWORK JH 7/22/03  
(Data must be collected from the Reserve Pit)  
Chloride content N. A. ppm Fluid volume N. A. bbls  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

Designate Type of Completion: REFRAC  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:  
Operator: Mobil Oil Corporation  
Well Name: E. WILSON #1 UNIT, WELL #3

Original Comp. Date: 1-3-96 Original Total Depth: 2910'  
~~XXX~~ HYDRAULICALLY FRACTURED ~~XXX~~ PATCHED CASING LEAK  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
~~XXX~~ Plug Back 2831' Plug Back Total Depth  
 Commingled Docket No. \_\_\_\_\_  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) Docket No. \_\_\_\_\_

3-9-00 11-30-95 3-26-00  
~~Spud~~ Date of START Date Reached TD Completion Date of

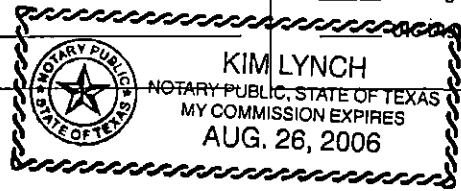
OF WORKOVER WORKOVER

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 of 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: Beverly Roppolo  
Title: Contract Completions Admin Date: 7-3-03  
Subscribed and sworn to before me this 3rd day of July, 2003  
Notary Public: Kim Lynch  
Date Commission Expires: Aug. 26, 2006

KCC Office Use ONLY  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 \_\_\_\_\_



Operator Name: Exxon Mobil Oil Corporation \* Lease Name: E. WILSON #1 UNIT Well #: 3  
 Sec. 32 Twp. 33 S. R. 37  East  West County: Stevens

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets)  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy)  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Datum</th> </tr> </thead> <tbody> <tr> <td>L. KRIDER</td> <td>2657'</td> <td>2672'</td> </tr> <tr> <td>WINFIELD</td> <td>2708'</td> <td>2723'</td> </tr> <tr> <td>TOWANDA</td> <td>2760'</td> <td>2775'</td> </tr> </tbody> </table>	Name	Top	Datum	L. KRIDER	2657'	2672'	WINFIELD	2708'	2723'	TOWANDA	2760'	2775'
Name	Top	Datum											
L. KRIDER	2657'	2672'											
WINFIELD	2708'	2723'											
TOWANDA	2760'	2775'											

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.250	8.625	24#	702'	CLASS C	350	50:50 c/poz
PRODUCTION	7.875	5.500	14#	2902'	CLASS C	133,75	3%D79,2% B28

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1122' - 1193'	Class H	100	2% CaCl <sub>2</sub> + 0.25 lb/sk FLOCELE

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
1 SPF	2657' - 2775"	FRAC'D WELL WITH 342,500 scf OF 80Q N2 FOAM @ 80BPM	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	------	--------	-----------	---

Date of First, Resumed Production, SWD or Enhr. 12-29-95	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
Estimated Production Per 24 Hours	Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

Schlumberger  
Dowell

# Stimulation Service Report

# ORIGINAL

Customer MOBIL DRILLING V390500757A	Job Number 20148916
--	------------------------

Well E Wilson 1-3		Location (legal) Sec. 32-33S-37W		Dowell Location Ulysses, KS		Job Start 03/13/2000		
Field Hugoton		Formation Name/Type Chase		Deviation 0 °	BitSize: 0 in	Well MD 2,870 ft	Well TVD 2,870 ft	
County Stevens		State/Province Kansas		BHP 0 psi	BHST 95 °F	BHCT 85 °F	Pore Pres Gradient 0 psi/ft	
Rig Name Key Energy	Drilled For Gas	Service Via		Casing				
Offshore Zone	Well Class Old	Well Type Workover		Depth, ft 2870	Size, in 5.5	Weight, lb/ft 14	Grade 0	
Primary Treating Fluid 80Q Foam	Polymer Loading 30 lb/1000gal	Fluid Density lb/gal		Tubing				
Service Line Fracturing	Job Type Frac,N2Foam/Energized		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	Thread 0	
Max. Allowed Tubing Pressure 2500 psi	Max. Allowed Ann. Pressure 0 psi	WellHead Connection 5 1/2 X 4 Swage		Perforated Intervals				
Service Instructions Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.	Top, ft 2657	Bottom, ft 2775	spf 0	No. of Shots 0	Total Interval 118 ft		Diameter 0 in	
Job Scheduled For: 03/13/2000 6:00	Arrived on Location: 03/13/2000 6:15	Leave Location: 03/13/2000 10:30		Tubing Vol. 0 bbl	CasingVol. 70 bbl	AnnularVol. 0 bbl	OpenHoleVol 0 bbl	
Treat Down Casing	Displacement 64.8 bbl	Packer Type None		Packer Depth 0 ft				
Time	BH Foam Q	BHinj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbl	psi	
9:05	0	0	0	0	0	0	0	START ACQUISITION
9:05	0.	0.	0.	0.	0.	0.	178.6	0
9:05	0.	0.	0.	0.	0.	0.05	1474	0
9:05	0.	0.	0.	0.	0.	0.05	1474	0
9:06	0.	0.	0.	0.	0.	0.063	3384	0
9:06	0.	0.	0.	0.	0.	0.063	3329	0
9:07	0.	0.	0.	0.	0.	0.063	3306	0
9:07	0.	0.	0.	0.	0.	0.063	3306	0
9:07	0.	0.	0.	0.	0.	0.063	3306	0
9:07	0.	0.	0.	0.	0.	0.063	3297	0
9:08	0.	0.	1081	0.	0.	0.063	3283	0
9:08	0.	0.	1081	0.	0.	0.063	3274	0
9:09	0.	0.	1081	0.	0.	0.063	3265	0
9:09	0.	0.	1081	0.	0.	0.063	334.2	0
9:09	0.	0.	1081	0.	0.	0.063	334.2	0
9:10	0.	1.43	1081	1.43	0.	0.201	27.47	0
9:10	0.	6.64	1081	6.64	0.	2.01	9.16	0
9:11	76.06	34.82	4364	8.34	11230	6.06	192.3	0
9:11	79.25	39.55	10662	8.21	13288	10.18	444.1	0
9:12	79.62	39.63	17493	8.08	13380	14.25	705.1	0
9:12	79.98	39.69	24229	7.95	13460	18.28	902.	0
9:13	78.73	69.82	34406	14.85	23308	24.09	1136	0
9:13	79.93	78.53	47163	15.76	26614	31.75	1433	0
9:14	79.56	80.29	60715	16.41	27084	39.9	1584	0
9:14	79.69	80.18	74327	16.28	27094	48.1	1676	0
9:15	79.83	80.1	87948	16.15	27114	56.25	1731	0
9:15	79.84	80.11	101608	16.15	27116	64.38	1781	0
9:16	79.99	80.71	115312	16.15	27374	72.49	1822	0
9:16	80.08	80.43	129071	16.02	27308	80.59	1841	0

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# ORIGINAL

Well		Field				Service Date		Customer		Job Number	
E Wilson #1-3		Hugoton						MOBIL DRILLING V39050075		20148916	
Time	BH Foam Q	BHInj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi		Message		
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi				
9:17	80.01	80.81	142840	16.15	27414	88.67	1854	0			
9:17	79.97	80.63	156599	16.15	27340	96.76	1868	0			
9:18	79.97	80.64	170344	16.15	27342	104.9	1868	0			
9:18	79.98	80.7	185096	16.15	27368	113.8	1859	0			
9:19	80.	80.75	198862	16.15	27390	121.9	1845	0			
9:19	80.01	80.8	213703	16.15	27410	131.5	1841	0			
9:20	80.01	80.81	227479	16.15	27416	139.6	1841	0			
9:20	80.04	80.94	242302	16.15	27468	149.	1832	0			
9:21	80.09	80.47	256080	16.02	27328	157.1	1809	0			
9:21	79.94	79.89	269768	16.02	27080	165.2	1799	0			
9:22	79.92	79.78	283345	16.02	27032	173.3	1813	0			
9:22	79.77	79.85	297970	16.15	27008	182.2	1804	0			
9:23	79.91	79.74	311532	16.02	27016	190.3	1813	0			
9:23	79.94	79.89	325124	16.02	27078	198.4	1799	0			
9:24	0.	0.	329233	0.	0.	201.3	1332	0			
9:24	0.	0.	329233	0.	0.	201.3	1140	0			
9:25	0.	0.	329233	0.	0.	201.3	1044	0			
9:25	0.	0.	329233	0.	0.	201.3	993.6	0			
9:26	0.	0.	329233	0.	0.	201.3	961.5	0			
9:26	0.	0.	329233	0.	0.	201.3	934.1	0			
9:27	0.	0.	329233	0.	0.	201.3	911.2	0			
9:27	0.	0.	329233	0.	0.	201.3	892.9	0			
9:28	0.	0.	329233	0.	0.	201.3	874.5	0			
9:28	0.	0.	329233	0.	0.	201.3	860.8	0			
9:29	0.	0.	329233	0.	0.	201.3	851.6	0			
9:29	0.	0.	329233	0.	0.	201.3	847.1	0			
9:30	0.	0.	329233	0.	0.	201.3	837.9	0			
9:30	0.	0.	329233	0.	0.	201.3	828.8	0			
9:31	0.	0.	329233	0.	0.	201.3	824.2	0			
9:31	0.	0.	329233	0.	0.	201.3	819.6	0			
9:32	0.	0.	329233	0.	0.	201.3	815.	0			
9:32	0.	0.	329233	0.	0.	201.3	810.4	0			
9:33	0.	0.	329233	0.	0.	201.3	810.4	0	PAUSE ACQUISITION		
Post Job Summary											
Average Injection Rates, bpm						Volume of Fluid Injected, bbl					
Fluid	N2	CO2	Maximum Rate			Clean Fluid	Acid	Oil	CO2	N2 (scf)	
16	27400	0	16.3			201	0	0	0	342500	
Treating Pressure Summary, psi						Quantity of & placed, lb					
Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP	Total Injected	Total Ordered/Designed				
0	1850	1800	1810	0	0	0	0				
N2 Percent	CO2 Percent		Designed Fluid Volume		Displacement	Slurry Volume	Pad Volume		Percent Pad		
80 %	0 %		100000 gal		0 bbl	201 bbl	0 gal		0 %		
Customer or Authorized Representative			Dowell Supervisor			Number of Stages	Fracture Gradient	<input checked="" type="checkbox"/> Job Completed			
John Rice			Dave Brawley			1	0 psi/ft	<input type="checkbox"/> Screen Out			

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COPY ORIGINAL

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

RECEIVED  
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KCC WICHITA

Operator: License # 5208

Name: Mobil Oil Corporation

Address P.O. Box 2173  
2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Purchaser: Spot Market

Operator Contact Person: Sharon Cook

Phone (316) 626-1142

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: L. J. Reimer

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

11-27-95 11-30-95 1-3-96  
Spud Date Date Reached TD Completion Date

API NO. 15-189-219060000  
County Stevens  
SE - NW - SW Sec. 32 Twp. 33S Rge. 37 X E  
1500 Feet from S/N (circle one) Line of Section  
1250 Feet from E/W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)  
Lease Name E. Wilson #1 Unit Well # 3  
Field Name Hugoton  
Producing Formation Chase  
Elevation: Ground 3143 KB 3153  
Total Depth 2910 PBDT 2870  
Amount of Surface Pipe Set and Cemented at 702 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set NA Feet  
If Alternate II completion, cement circulated from NA  
feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content 2,800 ppm Fluid volume 480 bbls  
Dewatering method used Waste Minimization Mud System  
Location of fluid disposal if hauled offsite:  
Operator Name Mobil Oil Corporation  
Lease Name C. W. Creamer #1 SWD License No. 5208  
NE Quarter Sec. 23 Twp. 34 S Rng. 37 E/W  
County Stevens Docket No. D-19,411

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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 Sharon A. Cook Sharon A. Cook  
Title Regulatory Assistant Date 2-1-96

Subscribed and sworn to before me this 1st day of February,  
19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998  
6-55.kcc

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

NOTARY PUBLIC - State of Kansas  
KATHLEEN R. POULTON  
My Appl. Exp. 08-18-98

Operator Name Mobil Oil Corporation Lease Name E. Wilson #1 Unit Well # 3  
 Sec. 32 Twp. 33S Rge. 37  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.)

List All E.Logs Run:  
 NO LOGS RUN

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
------	-----	-------

**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 Casing	12.250	8.625	24#	702	Class C Class C	225 125	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2902	Class C Class C	133 75	3% D79 2% 828

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

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

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
1 SPF	2657-2672	Acid: 1,000 gals 7.5% HCL
	2708-2723	Fract: 755 bbls 20# Crosslink gel
	2760-2775	140,000 lbs 12/20 Brady Sand

**TUBING RECORD**

Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------	--------	-----------	---

Date of First, Resumed Production, SMD or Inj. 12-29-95 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		445			

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

METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled 2657

Production Interval  Other (Specify) 2775

ORIGINAL  
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JUL 07 2003

KCC WICHITA

### WORKOVER SUMMARY

#### Op Center 9

WELL NAME: E. Wilson 1-3	FORMATION: Chase
METER #: 26258-0972 TD: 2910'	PBTD: <del>2870'</del> PERFS: 2657'-2775'
CASING SIZE: 5 1/2	LINER: NONE <sup>2831: see pg 2</sup>
GL ACCOUNT CODE: 75310007—CAPITAL	COST CENTER: P1938200-0012

WBS EA.2000.01380 Frac well and run on pump.

3/9/2000. MIRU Key Energy. Nipple up BOP. GIH with sand pump and tag @ 2735', clean out to 2780' and recovered 130 gal of sand. Shut down. Cost \$2308

3/10/2000. GIH with sand pump and tag @ 2780', clean out to 2851', recovered 20 gal of sand. GIH with tbg and RBP, stacked out @ COH. GIH with 4 7/8 bit and 5 1/2 scrapper, tag @ 1183, used tongs to turn, got to 1200'. COH and inspect bit and scrapper, iron sulfide. GIH with bit and scrapper, dump 30 bbl of fresh water with 15 gal of RN-211, let set for 30 minutes. Use tongs to drill down, got to 1245' and fell through. Cost \$2108 Cum Cost \$4416

3/11/2000. Finish going in hole with bit and scrapper, COH. GIH with tbg and RBP, set @ 2730', COH with tbg. Nipple down BOP, install frac valve. Cost \$2496 Cum Cost \$6912

3/13/2000. MIRU DS, N2 foam frac well down casing @ 80 BPM with 80Q foam. Average treating pressure 1800 PSI. With 200 bbl of liquid in fluid started flowing up around well head. Shut down frac, knocked DS loose and started flow back up casing, well died. Approximately 2 bbl of fluid on ground, filled out UPR and sent to Rick Creswell and Jack Corbell. GIH with tbg and retrieve RBP and move up hole to 2615'. COH pick up packer and locate hole in pipe between 1122'-1193, pump into at 1/2 BPM. Shut down. Cost \$16131 Cum Cost \$23043

3/20/2000. MIRU DS. Drop 2 sacks of sand on RBP. Load and pressure back side to 500 PSI. Pump down tbg and establish injection rate of 1 1/2 BPM @ 250 PSI. Pump 100 sacks of class H cement with 2% calcium

chloride, shut down wash pump and lines. Started displacing cement, pumped 4 ½ bbl, pressure reached 1200 PSI. Shut down, reverse out tbg, Pressure up to 1200 PSI and held COH with tbg and packer. Shut down. Cost \$4662 Cum Cost \$27705

3/22/2000. GIH with bit, scrapper, 2 drill collars, and tbg. Tag cement @1115', drill out good cement to 1285. Pressure test leak, go down and tag sand on top of plug. Wash sand off plug, circulate for ½ hr. Pull 4 stands of pipe and shut down. Cost \$5200 Cum Cost \$32905.

3/23/2000. Finish coming out of hole with tbg, collars, and bit. GIH with retrieving head, tag RBP and circulate clean. Pull up 1 jt, swab well down to 2620'. Latch on to RBP, release and start out of hole, shut down due to heavy rain and lightning . Cost \$1877 Cum Cost \$34782

3/24/2000. Finish coming out of hole with RBP. GIH with sand pump and tag @ 2779'. clean out to 2831' and recovered 45 gal of sand. Shut down due to heavy rain. Cost \$881 Cum Cost \$35663

3/25/2000. GIH with sand pump and tag @ 2831', could not make any hole. THIS WILL BE NEW PBTD, sand line measurement. GIH with 10' open end mud anchor, seating nipple, and 89 jts of 2 3/8 tbg. Seating nipple @ 2779'. GIH with 2 X 1 ¼ X 10' pump, 3' gas anchor and rods. Left well on sales and shut down. Cost \$2922 Cum Cost \$38585

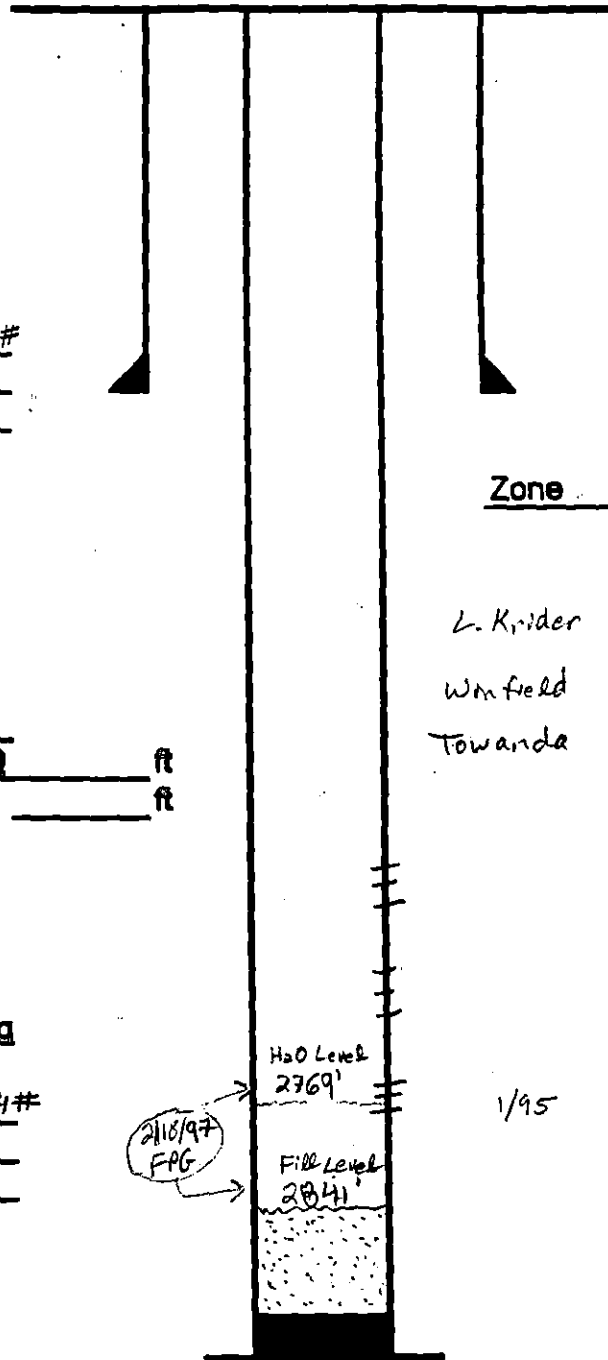
3/26/2000. Flush and load tbg. Clean location, RDMO. Cost \$6697. FINAL REPORT THIS WELL Final Cost Expense \$39655 Cost Capital \$10619



Well Name: E. Wilson 1-3  
 API: 15-189-21906  
 EGM: 26258-0972  
 Location Code: 19382

STR: 32-335-37W  
 GL/KB: 3143'/3153'  
 Date Drilled: 11/95

ORIGINAL



Tubing Detail

None

Surface Casing

Size 8-5/8" 24#  
 Depth 702  
 Cement 350 SX

Perforation Detail

Zone	Depth	spf
------	-------	-----

L. Krider	2657'-72'	1-0°
Winfield	2708'-23'	1-0°
Towanda	2760'-75'	1-0°

Tubing Detail

Size \_\_\_\_\_  
 # Jts \_\_\_\_\_ @ \_\_\_\_\_ ft  
 Pump Depth \_\_\_\_\_ ft

Production Casing

Size 5-1/2" 14#  
 Depth 2902'  
 Cement 208 SX

Stimulation History

1/95  
 1000 gal 7.5% HCL  
 31,710 gals 20# XL Gel  
 140,000# 12/20 Brady Sand  
 @ 50 BPM

H<sub>2</sub>O Level  
 2769'  
 (2/16/97 FPG)  
 Fill Level  
 2841'

TD: 2910'  
 PBD: 2870'



**Dowell**

Dowell, A Division of Schlumberger Technology Corp.  
204 S Missouri  
Ulysses, KS

### Service Order Receipt RECEIVED

**JUL 07 2003**

**KCC WICHITA**

**Job Number**  
20148916

<b>Invoice Mailing Address:</b> MOBIL DRILLING V390500757A  MIDLAND, TX US	<b>ARRIVE LOCATION</b>	Date	03/13/2000	Time	6:15:00 AM
	<b>JOB START</b>	Date	03/13/2000	Time	9:10:00 AM
	<b>JOB COMPLETION</b>	Date	03/13/2000	Time	9:30:00 AM
	<b>LEAVE LOCATION</b>	Date	03/13/2000	Time	10:30:00 AM
	<b>Service Instructions</b> Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.				
<b>Service Description</b> Fracturing - Frac,N2Foam/Energized					
<b>Customer PO</b>	<b>Contract</b>		<b>AFE</b>	<b>Rig</b>	
0	0		0	Key Energy	
<b>Well</b>	<b>State/Province</b>		<b>County/Parish/Block</b>	<b>Legal Location</b>	
E Wilson 1-3	Kansas		Stevens	Sec. 32-33S-37W	
<b>Field</b>	<b>Customer or Authorized Representative</b>				
Hugoton	John Rice				

Material	Description	Quantity	Unit	Unit Price	Disc	Amount
<b>Services</b>						
102325001	Tds Including Post Trt Docum	1	JOB	1,050.00	66.0%	357.00
28021001	Pump Rated Btwn 651-1000 hhp	1	EA	4,150.00	66.0%	1,411.00
28400011	Blender, 11-20 bpm, 1st 4 hr	1	EA	1,320.00	66.0%	448.80
28557050	N2 Pump 0-5k psi High Rate	4	EA	2,600.00	66.0%	3,536.00
28570000	Nitrogen Transport Time Charge	4	HR	120.00	66.0%	163.20
58039000	On Location Time-All Other Units	4	HR	85.00	66.0%	115.60
59200002	Mileage, All Other Equipment	544	MI	3.75	66.0%	693.60
<b>Services Subtotal:</b>						<b>6,725.20</b>
<b>Products</b>						
F052	Foaming Agent F52	45	GA	43.95	66.0%	672.44
J134L	Breaker, Enzyme J134L	0.8	GA	1,475.80	66.0%	401.42
J424	Gelling Agent, Water J424	650	LB	7.60	66.0%	1,679.60
M275	Microbiocide M275	6	LB	65.97	66.0%	134.58
N002	Nitrogen N2	456227	CF	0.02	66.0%	3,490.14
<b>Products Subtotal:</b>						<b>6,378.17</b>

**Total (Before Discount):** 38,539.32  
**Discount:** 25,435.95  
**Estimated Discounted Total (USD):** 13,103.37

The estimated charges above are subject to correction by Dowell.

Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner	Signature of Customer or Authorized Representative  John Rice	Signature of Dowell Representative  Dave Brawley
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**Thank you for Calling Dowell!**

Stimulation Service Report

Schlumberger  
Dowell

Customer: MOBIL DRILLING V390500757A  
Job Number: 20148916

Well E Wilson 1-3		Location (legal) Sec. 32-33S-37W		Dowell Location Ulysses, KS		Job Start 03/13/2000		
Field Hugoton		Formation Name/Type Chase		Deviation 0 °	BitSize: 0 in	Well MD 2,870 ft	Well TVD 2,870 ft	
County Stevens		State/Province Kansas		BHP 0 psi	BHST 95 °F	BHCT 85 °F	Pore Pres Gradient 0 psi/ft	
Rlg Name Key Energy	Drilled For Gas	Service Via		Casing				
Offshore Zone	Well Class Old	Well Type Workover		Depth, ft 2870	Size, in 5.5	Weight, lb/ft 14	Grade 0	
Primary Treating Fluid 80Q Foam	Polymer Loading 30 lb/1000gal	Fluid Density lb/gal		Depth, 0	Size, in 0	Weight, lb/ft 0	Grade 0	
Service Line Fracturing	Job Type Frac,N2Foam/Energized		Depth, 0	Size, in 0	Weight, lb/ft 0	Grade 0	Thread	
Max. Allowed Tubing Pressure 2500 psi	Max. Allowed Ann. Pressure 0 psi	WellHead Connection 5 1/2 X 4 Swage		Perforated Intervals				
Service Instructions Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.	Top, ft 2657	Bottom, ft 2775	spf 0	No. of Shots 0	Total Interval 118 ft		Diameter 0 in	
Job Scheduled For: 03/13/2000 6:00	Arrived on Location: 03/13/2000 6:15	Leave Location: 03/13/2000 10:30		Treat Down Casing	Displacement 64.8 bbl	Packer Type None	Packer Depth 0 ft	
Tubing Vol. 0 bbl	CasingVol. 70 bbl	AnnularVol. 0 bbl	OpenHoleVol 0 bbl					
Time 24 hr clock	BH Foam Q %	BHInj Rate bpm	Tot N2 ft3	Total Flowrate bpm	Total N2 Rate ft3/min	Total Volume bbl	Treating Psi psi	Message
9:05	0	0	0	0	0	0	0	START ACQUISITION
9:05	0.	0.	0.	0.	0.	0.	178.6	
9:05	0.	0.	0.	0.	0.	0.05	1474	
9:05	0.	0.	0.	0.	0.	0.05	1474	Pressure Test Lines
9:06	0.	0.	0.	0.	0.	0.063	3384	
9:06	0.	0.	0.	0.	0.	0.063	3329	
9:07	0.	0.	0.	0.	0.	0.063	3306	
9:07	0.	0.	0.	0.	0.	0.063	3306	[Total N2 Rate]=F[Total N2 Rate 2]
9:07	0.	0.	0.	0.	0.	0.063	3306	Start N2 tach rates
9:07	100.	10.42	665.	0.	4420	0.063	3297	
9:08	0.	0.	1081	0.	0.	0.063	3283	
9:08	0.	0.	1081	0.	0.	0.063	3274	
9:09	0.	0.	1081	0.	0.	0.063	3265	
9:09	0.	0.	1081	0.	0.	0.063	334.2	
9:09	0.	0.	1081	0.	0.	0.063	334.2	Start Job
9:10	0.	1.43	1081	1.43	0.	0.201	27.47	
9:10	0.	6.64	1081	6.64	0.	2.01	9.16	
9:11	76.06	34.82	4364	8.34	11230	6.06	192.3	
9:11	79.25	39.55	10662	8.21	13288	10.18	444.1	
9:12	79.62	39.63	17493	8.08	13380	14.25	705.1	
9:12	79.98	39.69	24229	7.95	13460	18.28	902.	
9:13	78.73	69.82	34406	14.85	23308	24.09	1136	
9:13	79.93	78.53	47163	15.76	26614	31.75	1433	
9:14	79.56	80.29	60715	16.41	27084	39.9	1584	
9:14	79.69	80.18	74327	16.28	27094	48.1	1676	
9:15	79.83	80.1	87948	16.15	27114	56.25	1731	
9:15	79.84	80.11	101608	16.15	27116	64.38	1781	
9:16	79.99	80.71	115312	16.15	27374	72.49	1822	
9:16	80.08	80.43	129071	16.02	27308	80.59	1841	

# Stimulation Service Report

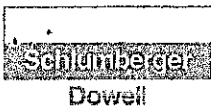
# ORIGINAL

Customer	Job Number
MOBIL DRILLING V390500757A	20148916

Well <b>E Wilson 1-3</b>		Location (legal) <b>Sec. 32-33S-37W</b>		Dowell Location <b>Ulysses, KS</b>		Job Start <b>03/13/2000</b>			
Field <b>Hugoton</b>		Formation Name/Type <b>Chase</b>		Deviation <b>0 °</b>	BitSize: <b>0 in</b>	Well MD <b>2,870 ft</b>	Well TVD <b>2,870 ft</b>		
County <b>Stevens</b>		State/Province <b>Kansas</b>		BHP <b>0 psi</b>	BHST <b>95 °F</b>	BHCT <b>85 °F</b>	Pore Pres Gradient <b>0 psi/ft</b>		
Rig Name <b>Key Energy</b>	Drilled For <b>Gas</b>	Service Via		Casing					
Offshore Zone	Well Class <b>Old</b>	Well Type <b>Workover</b>		Depth, ft	Size, in	Weight, lb/ft	Grade		
Primary Treating Fluid <b>80Q Foam</b>	Polymer Loading <b>30 lb/1000gal</b>	Fluid Density <b>lb/gal</b>		2870	5.5	14			
Service Line <b>Fracturing</b>	Job Type <b>Frac,N2Foam/Energized</b>		0	0	0				
Max. Allowed Tubing Pressure <b>2500 psi</b>	Max. Allowed Ann. Pressure <b>0 psi</b>	WellHead Connection <b>5 1/2 X 4 Swage</b>		Perforated Intervals					
Service Instructions <b>Safely deliver &amp; perform Foam Frac with materials &amp; equipment listed on the Service Receipt. Per clients instructions.</b>	Top, ft	Bottom, ft	spf	No. of Shots	Total Interval				
	2657	2775	0	0	118 ft				
	0	0	0	0	Diameter				
	0	0	0	0	0 in				
	Treat Down	Displacement	Packer Type	Packer Depth					
	Casing	64.8 bbl	None	0 ft					
Job Scheduled For: <b>03/13/2000 6:00</b>		Arrived on Location: <b>03/13/2000 6:15</b>		Leave Location: <b>03/13/2000 10:30</b>		Tubing Vol.	CasingVol.	AnnularVol.	OpenHoleVol
						0 bbl	70 bbl	0 bbl	0 bbl

Time	BH Foam O	BH(n) Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message	
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbl	psi		
9:05	0	0	0	0	0	0	0	0	START ACQUISITION
9:05	0.	0.	0.	0.	0.	0.	178.6	0	
9:05	0.	0.	0.	0.	0.	0.05	1474	0	
9:05	0.	0.	0.	0.	0.	0.05	1474	0	Pressure Test Lines
9:06	0.	0.	0.	0.	0.	0.063	3384	0	
9:06	0.	0.	0.	0.	0.	0.063	3329	0	
9:07	0.	0.	0.	0.	0.	0.063	3306	0	
9:07	0.	0.	0.	0.	0.	0.063	3306	0	[Total N2 Rate]=F[Total N2 Rate 2]
9:07	0.	0.	0.	0.	0.	0.063	3306	0	Start N2 tach rates
9:07	100.	10.42	665.	0.	4420	0.063	3297	0	
9:08	0.	0.	1081	0.	0.	0.063	3283	0	
9:08	0.	0.	1081	0.	0.	0.063	3274	0	
9:09	0.	0.	1081	0.	0.	0.063	3265	0	
9:09	0.	0.	1081	0.	0.	0.063	334.2	0	
9:09	0.	0.	1081	0.	0.	0.063	334.2	0	Start Job
9:10	0.	1.43	1081	1.43	0.	0.201	27.47	0	
9:10	0.	6.64	1081	6.64	0.	2.01	9.16	0	
9:11	76.06	34.82	4364	8.34	11230	6.06	192.3	0	
9:11	79.25	39.55	10662	8.21	13288	10.18	444.1	0	
9:12	79.62	39.63	17493	8.08	13380	14.25	705.1	0	
9:12	79.98	39.69	24229	7.95	13460	18.28	902.	0	
9:13	78.73	69.82	34406	14.85	23308	24.09	1136	0	
9:13	79.93	78.53	47163	15.76	26614	31.75	1433	0	
9:14	79.56	80.29	60715	16.41	27084	39.9	1584	0	
9:14	79.69	80.18	74327	16.28	27094	48.1	1676	0	
9:15	79.83	80.1	87948	16.15	27114	56.25	1731	0	
9:15	79.84	80.11	101608	16.15	27116	64.38	1781	0	
9:16	79.99	80.71	115312	16.15	27374	72.49	1822	0	
9:16	80.08	80.43	129071	16.02	27308	80.59	1841	0	

Well		Field				Service Date		Customer		Job Number	
E Wilson #1-3		Hugoton						MOBIL DRILLING V39050075		20148916	
Time	BH Foam Q	BH Inj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi		Message		
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi				
9:17	80.01	80.81	142840	16.15	27414	88.67	1854	0			
9:17	79.97	80.63	156599	16.15	27340	96.76	1868	0			
9:18	79.97	80.64	170344	16.15	27342	104.9	1868	0			
9:18	79.98	80.7	185096	16.15	27368	113.8	1859	0			
9:19	80.	80.75	198862	16.15	27390	121.9	1845	0			
9:19	80.01	80.8	213703	16.15	27410	131.5	1841	0			
9:20	80.01	80.81	227479	16.15	27416	139.6	1841	0			
9:20	80.04	80.94	242302	16.15	27468	149.	1832	0			
9:21	80.09	80.47	256080	16.02	27328	157.1	1809	0			
9:21	79.94	79.89	269768	16.02	27080	165.2	1799	0			
9:22	79.92	79.78	283345	16.02	27032	173.3	1813	0			
9:22	79.77	79.85	297970	16.15	27008	182.2	1804	0			
9:23	79.91	79.74	311532	16.02	27016	190.3	1813	0			
9:23	79.94	79.89	325124	16.02	27078	198.4	1799	0			
9:24	0.	0.	329233	0.	0.	201.3	1332	0			
9:24	0.	0.	329233	0.	0.	201.3	1140	0			
9:25	0.	0.	329233	0.	0.	201.3	1044	0			
9:25	0.	0.	329233	0.	0.	201.3	993.6	0			
9:26	0.	0.	329233	0.	0.	201.3	961.5	0			
9:26	0.	0.	329233	0.	0.	201.3	934.1	0			
9:27	0.	0.	329233	0.	0.	201.3	911.2	0			
9:27	0.	0.	329233	0.	0.	201.3	892.9	0			
9:28	0.	0.	329233	0.	0.	201.3	874.5	0			
9:28	0.	0.	329233	0.	0.	201.3	860.8	0			
9:29	0.	0.	329233	0.	0.	201.3	851.6	0			
9:29	0.	0.	329233	0.	0.	201.3	847.1	0			
9:30	0.	0.	329233	0.	0.	201.3	837.9	0			
9:30	0.	0.	329233	0.	0.	201.3	828.8	0			
9:31	0.	0.	329233	0.	0.	201.3	824.2	0			
9:31	0.	0.	329233	0.	0.	201.3	819.6	0			
9:32	0.	0.	329233	0.	0.	201.3	815.	0			
9:32	0.	0.	329233	0.	0.	201.3	810.4	0			
9:33	0.	0.	329233	0.	0.	201.3	810.4	0	PAUSE ACQUISITION		
Post Job Summary											
Average Injection Rates, bpm						Volume of Fluid Injected, bbl					
Fluid	N2	CO2	Maximum Rate			Clean Fluid	Acid	Oil	CO2	N2 (scf)	
16	27400	0	16.3			201	0	0	0	342500	
Treating Pressure Summary, psi						Quantity of & placed, lb					
Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP	Total Injected	Total Ordered/Designed				
0	1850	1800	1810	0	0	0	0				
N2 Percent	CO2 Percent	Designed Fluid Volume		Displacement		Slurry Volume	Pad Volume	Percent Pad			
80 %	0 %	100000 gal		0 bbl		201 bbl	0 gal	0 %			
Customer or Authorized Representative			Dowell Supervisor			Number of Stages	Fracture Gradient	<input checked="" type="checkbox"/> Job Completed			
John Rice			Dave Brawley			1	0 psi/ft	<input type="checkbox"/> Screen Out			

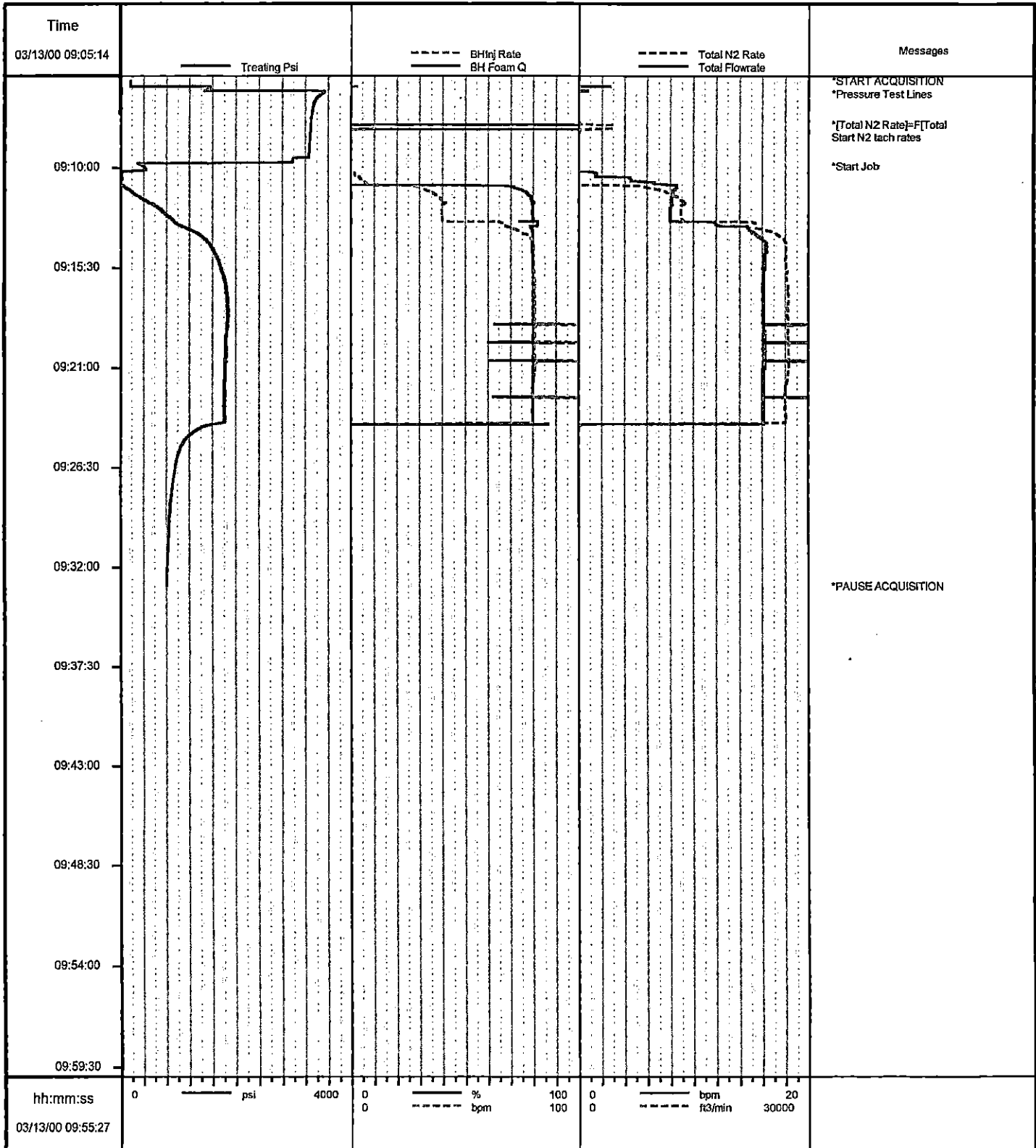


Matrix Job Report

PRISM\* V2.23

ORIGINAL

Well	E Wilson 1-3	Client	Mobil Drilling
Field	Hugoton	SIR No.	20148916
Country	USA	Job Date	03/13/2000 9:05:14 AM



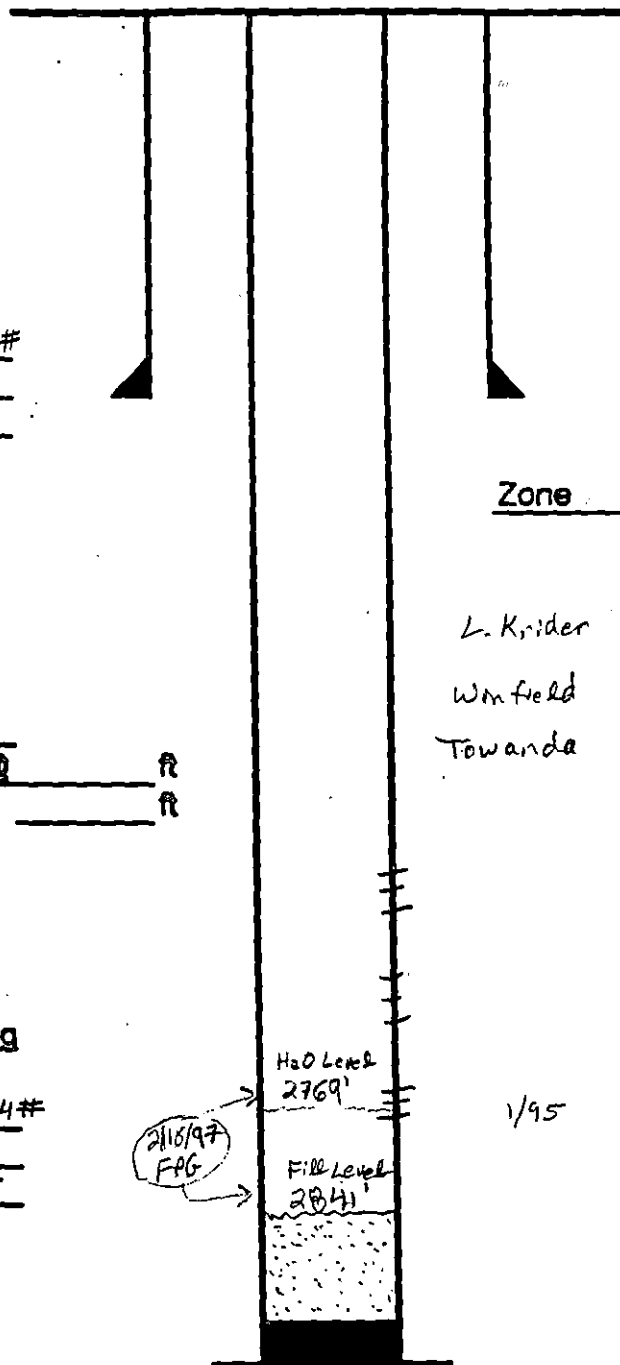
Job: mo148916  
03/13/2000 09:56:50

\* Mark of Schlumberger

Well Name: E. Wilson 1-3  
 API: 15-189-21906  
 EGM: 26258-0972  
 Location Code: 19382

STR: 32-335-37W  
 GL/KB: 3143'/3153'  
 Date Drilled: 11/95

ORIGINAL



Tubing Detail

None

Surface Casing

Size 8-5/8" 24#  
 Depth 702  
 Cement 350 SX

Perforation Detail

Zone	Depth	spf
------	-------	-----

L. Krider	2657'-72'	1-0°
Wm field	2708'-23'	1-0°
Towanda	2760'-75'	1-0°

Tubing Detail

Size \_\_\_\_\_  
 # Jts \_\_\_\_\_ @ \_\_\_\_\_ ft  
 Pump Depth \_\_\_\_\_ ft

Production Casing

Size 5-1/2" 14#  
 Depth 2902'  
 Cement 208 SX

Stimulation History

1/95  
 1000 gal 7.5% HCL  
 31,710 gals 20# XL Gel  
 140,000# 12/20 Brady Sand  
 @ 50 BPM

TD: 2910'  
 PBTD: 2870'