

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

Operator: License # 04782

Name: Ensign Operating Co.

Address P. O. Box 2161

City/State/Zip Liberal, KS. 67905-2161

Purchaser: Enron

Operator Contact Person: Wes Willimon

Phone (316) 626-8131

Contractor: Name: Murfin Drilling Inc.

License: 30606

Wellsite Geologist: Duane Moredock

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, VSW, Expl., Cathodic, etc)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

02/08/97 02/20/97 04/09/97

Spud Date Date Reached TD Completion Date

SIDE ONE

API NO. 15- 175-215910000

County Seward

N/2-S/2 - NE - Sec. 25 Twp. 34N Rge. 34 X W

1650 Feet from S (circle one) Line of Section

1320 Feet from EW (circle one) Line of Section

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

Lease Name Liberal Well # 2-25

Field Name Salley Southwest

Producing Formation Morrow

Elevation: Ground 2883' KB 2893

Total Depth 6900' PBTB 6449'

Amount of Surface Pipe Set and Cemented at 1598 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ART 1 DW
(Data must be collected from the Reserve Pit) 7-22-97

Chloride content 1250 ppm Fluid volume 9700 bbls

Dewatering method used Evaporation & Backfill

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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.

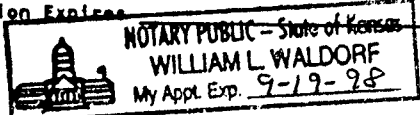
Signature Marion W. Willimon

Title Production Supt. Date 05/29/97

Subscribed and sworn to before me this 29th day of May 1997.

Notary Public William L. Waldorf

Date Commission Expires Sept. 19, 1998



K.C.C. OFFICE USE ONLY	
F	<input checked="" type="checkbox"/> Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/> Wireline Log Received
C	<input checked="" type="checkbox"/> Geologist Report Received
Distribution	
<input checked="" type="checkbox"/> KCC	<input type="checkbox"/> SWD/Rep <input checked="" type="checkbox"/> NGPA
<input type="checkbox"/> KGS	<input type="checkbox"/> Plug <input checked="" type="checkbox"/> Other (Specify)

Operator Name Ensign Operating Co.

Lease Name Liberal

Well # 2-25

Sec. 25 Twp. 34N Rge. 34

East

County Seward

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests during interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static or 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:

See attached

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

See attached

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 1/4"	8-5/8"	24#	1598'	Prem Plus Lite Class C	650 150	2% CC & 1/4# / Sk Flocele
Production	7-7/8"	4 1/2"	10.5 & 11.6#	6493'	Scavenger Cmt Class H	25 400	.7% Hala 2% .25% CBL & 3% KCL

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
2 JSPE	6138 - 80'		

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2-3/8"	6181'				
Date of First, Resumed Production, SWD or Inj.			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
04/09/97							
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio
		--		1270		1.67	--

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: 6138 - 80'

GENERAL WELL INFORMATION

Operator: Ensign Operating Co.

Well Name: No. 2-25 Liberal API No. 15-175-21591

Prospect: Sally Southwest Prospect

Location: S/2 S/2 NE Sec. 25, T34S, R34W, 1650' FNL, 1320' FEL

County: Seward

State: Kansas

Elevation: G.L. 2883' K.B. 2893'

Spudded: February 8, 1997 @ 10:45 P.M..

**Completed
Drilling:** February 20, 1997 @ 3:00 P.M.

Total Depth: Driller 6900' Logger 6899'

Status: Set Production Casing To Produce Lower Morrow Sandstone.

Drill-Stem Tests: Drill-Stem Test No. 1 6138'-6220' Pennsylvanian Lower Morrow
Times: 30-60-45-135
I.O. Strong Blow, Bottom Of Bucket In 15 Seconds, Gas To Surface In
Two Minutes.
F.O. Very Strong Blow.

Initial Open Gas Flow:

Time in Minutes	Orifice PSI	Orifice Size	Flow Rate CFD
2	NM	1.5"	GTS
10	38	1.5"	3,036,000
15	45	1.5"	3,454,000
20	47	1.5"	3,573,000
25	50	1.5"	3,752,000
30	50	1.5"	3,752,000

Final Open Gas Flow:

Time in Minutes	Orifice PSI	Orifice Size	Flow Rate CFD
5	38	1.5"	3,036,000
10	40	1.5"	3,155,000
15	55	1.5"	4,051,000
20	58	1.5"	4,230,000
25	58	1.5"	4,230,000
30	58	1.5"	4,230,000
35	58	1.5"	4,230,000
40	58	1.5"	4,230,000
45	58	1.5"	4,230,000

Recovery: 6114' Gas In Drill Pipe.

Sampler: 20.7 Cu Ft Gas @ 850 psi

Hydrostatic Pressures 2962-2841 psi

Flow Pressures 525-665:665-988 psi

Shut-in Pressures 994-988 psi

Bottom Hole Temperature 139° F

Trilobite Testing L.L.C., Tom Horacek, Tester.

Logging Program: HRI/SP/GR 0' - 6900'
 SDL/DSN/GR/Cal 4000' - 6890'
 ML/GR/Cal 4000' - 6895'
 Sonic/GR/Cal 1598' - 6857'

Halliburton Energy Services, Piroutek, Engineer.

Sample Program: Ten foot samples from 4252' - 6900'. Samples were examined and described at the well site. Samples were caught on depth intervals by rig crews. Samples were lagged by geologist. All depths reported herein are lagged depths.

Mud Logging: Holmes Gas Detector Service, Unmanned Unit.

Mud Program: Cimмерon Mud Co. Jim Reed, Engineer.

Lost Circulation: None.

Contractor: Murfin Drilling Co., Inc., Rig No. 20, Rodney Farr, Toolpusher.

Bit Record:

No.	Size	Make	Type	Depth Out	Feet	Hours
1	12.25	Sec	S33S	1598'	1598'	18.25
2	7.875	HTC	GT18	5464'	3866'	122.50
3	7.875	HTC	S88F	6950'	1436'	79.50

Total Rotating Hours 220.25, Average 31.328 Ft/Hr

Deviation Record:

- 1/2° @ 852'
- 1/2° @ 1165'
- 3/4° @ 1598'
- 1/2° @ 2161'
- 1/2° @ 2661'
- 1/2° @ 3381'
- 1° @ 4127'
- 1° @ 4723'
- 1/2° @ 5464'
- 1/2° @ 6220'
- 1/2° @ 6900'