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 # 4485
Name: Verde Oil Company
Address: 8700 Crownhill, #800
City/State/Zip: San Amtonio, TX 78209
Purchaser: Plains
Operator Contact Person: Jeffrey L. Dale
Phone: (316) 754-3800
Contractor: Name: McPherson Drilling
License: 5675
Wellsite Geologist: Jeffrey L. Dale

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

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: ___ Original Total Depth: ___
___ Deepening ___ Re-perf. ___ Conv. to Enhr./SWD
___ Plug Back ___ Plug Back Total Depth
___ Commingled Docket No.
___ Dual Completion Docket No.
___ Other (SWD or Enhr.?) Docket No.

4/24/00	4/26/00	8/04/00
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 001-28849-0000
County: Allen
NE NE NE SW Sec. 29 Twp. 26 S. R. 20 ■ East ☐ West
2475 feet from (S) N (circle one) Line of Section
2805 feet from (E) W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE (SE) NW SW
Lease Name: Manson Well #: I-4-6
Field Name: Humboldt/Chanute
Producing Formation: Bartlesville Tucker
Elevation: Ground: 992' Kelly Bushing: N/A
Total Depth: 890' Plug Back Total Depth: 864'
Amount of Surface Pipe Set and Cemented at 20 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ■ No
If yes, show depth set ___ Feet
If Alternate II completion, cement circulated from 887
feet depth to 0' w/ 90 sx cmt.

Drilling Fluid Management Plan ALT II KJR 7/17/07
(Data must be collected from the Reserve Pit)
Chloride content 400 ppm Fluid volume 85 bbls
Dewatering method used Evaportation
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License No.:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Docket No.:

RECEIVED
KANSAS CORPORATION COMMISSION
JAN 23 2001
CONSERVATION DIVISION

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:
Title: Geologist Date: May 15, 2000
Subscribed and sworn to before me this 15th day of May,
~~19~~ 2000
Notary Public: Kaylene Dick
Date Commission Expires: 8-17-03

NOTARY PUBLIC - State of Kansas
KAYLENE DICK
My Appt. Exp. 8-17-03

KCC Office Use ONLY
___ Letter of Confidentiality Attached
If Denied, Yes ☐ Date:
___ Wireline Log Received
___ Geologist Report Received
___ UIC Distribution

Side Two

Operator Name: Verde Oil Company Lease Name: Manson Well #: I-4-6

Sec. 29 Twp: 26 S. R. 20 ■ East ☐ West County: Allen

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 (Attach Additional Sheets) ☐ Yes ■ No

Samples Sent to Geological Survey ☐ Yes ■ No

Cores Taken ■ Yes ☐ No

Electric Log Run ■ Yes ☐ No (Submit Copy)

List All E. Logs Run:

Gamma ray, neutron & casing collar locator

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

Name	Top	Datum
Tucker	806'	+186'

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	10-1/4"	7"	17.0	20'	A	5	none
Production	5-3/4"	2-7/8"	6.4	887'	A 50/50	90	5% salt 2% gel
							5% gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone				

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	806' - 842' w/72	250 gal. 15% HCL	806' -
		200# 20/40 sand, 800# 12/20	
		sand in 40 bbl. 20# gel	842'
		system	

TUBING RECORD Size: none Set At: Packer At:

Liner Run ☐ Yes ■ No

Date of First, Resumed Production, SWD or Enhr.: N/A - injection well

Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ■ Other (Explain): injection well

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

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

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

Production Interval: 806' - 842'

McPherson Drilling

Drillers Log

ORIGINAL

API NO.

S T. R.

LOCATION:

OPERATOR: Verde Oil Co.

COUNTY: Allen

ADDRESS: 8700 Crownhill #800, San Antonio, TX 78209

WELL NO. I-4-6

LEASE NAME: Manson

FOOTAGE LOCATION:

FROM THE NORTH LINE

FROM THE WEST LINE

PRINCIPLE CONTRACTOR: MCPHERSON DRILLING

SPUD DATE: 4/24/00

COMPLETED DATE: 4/26/00

TOTAL DEPTH: 890'

GEOLOGIST: Jeff Dale

CASING RECORD

	SURFACE	PRODUCTION
SIZE HOLE:	9 1/4"	5 1/4"
SIZE CASING:	7"	
WEIGHT:	20#	
SETTING DEPTH:	20'	
TYPE CEMENT:	Portland	
SACKS:	4	

WELL LOG

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
soil/clay	0	6			
sand / lime	6	17			
lime	17	179			
shale	179	311			
lime	311	314			
sand / lime	314	316			
lime	316	329			
shale	329	332			
lime	332	337			
shale	337	412			
lime	412	434			
shale	434	438			
lime	438	439			
shale	439	483			
lime	483	490			
shale	490	496			
lime / sand	496	517			
shale	517	607			
lime	607	610			
shale / sand	610	788			
sandy shale	788	814			
oil sand	814	854			
sandy shale	854	857			
shale	857	890 TD			

COMMENTS: Core 815-855

ORIGINAL

CONSOLIDATED INDUSTRIAL SERVICES, INC.
211 W. 14TH STREET, CHANUTE, KS 66720
316-431-9210 OR 800-467-8676

TICKET NUMBER 13386
LOCATION Savonburg
FOREMAN Jason Kelley

TREATMENT REPORT

Marmon

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
4-26-00	8584	#I 4-6						

CHARGE TO Verde 99	OWNER
MAILING ADDRESS R4 Box 34	OPERATOR
CITY Savonburg	CONTRACTOR
STATE KS ZIP CODE 66772	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION	TIME LEFT LOCATION

WELL DATA

HOLE SIZE	5 3/4"
TOTAL DEPTH	890'
CASING SIZE	2 7/8"
CASING DEPTH	887' / Baffle 876'
CASING WEIGHT	
CASING CONDITION	New
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	

TYPE OF TREATMENT

[ ] SURFACE PIPE	[ ] ACID BREAKDOWN
[X] PRODUCTION CASING	[ ] ACID STIMULATION
[ ] SQUEEZE CEMENT	[ ] ACID SPOTTING
[ ] PLUG & ABANDON	[ ] FRAC
[ ] PLUG BACK	[ ] FRAC + NITROGEN
[ ] MISC PUMP	[ ] FOAM FRAC
[X] OTHER Injection well	[ ] NITROGEN

PRESSURE LIMITATIONS

	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB Cement casing. 50/50 cement, 2% gel

JOB SUMMARY

DESCRIPTION OF JOB EVENTS 16:30 pump 10BBL AHead (water). 16:34 Gel was pumped. 16:37 circulation was established at surface. 16:37 Dye was ran for 12 sec.. 16:38 cement was pumped. 16:40 gel returned to surface. 16:43 Dye returned. 16:46 Drop plug and wash out pump. 16:47 Displaced @ 5BBL of water. 16:51 plug hit bottom and shut in pressure was 750#

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	
FINAL DISPLACEMENT	psi	
ANNULUS	psi	
MAXIMUM	psi	750
MINIMUM	psi	250
AVERAGE	psi	
ISIP	psi	
5 MIN SIP	psi	
15 MIN SIP	psi	

TREATMENT RATE

BREAKDOWN BPM
INITIAL BPM
FINAL BPM
MINIMUM BPM
MAXIMUM BPM
AVERAGE BPM
HYD HHP = RATE X PRESSURE X 40.8

AUTHORIZATION TO PROCEED TITLE DATE

ALL THE TERMS AND CONDITIONS STATED ON THE REVERSE SIDE ARE INCORPORATED AS PART OF THIS SALE.

Ravin 1259

CONSOLIDATED INDUSTRIAL SERVICES
AN INFINITY COMPANY
211 W. 14TH STREET, CHANUTE, KS 66720
316-431-9210 OR 800-467-8676

ORIGINAL

TICKET NUMBER 13609

LOCATION Savonburg

FIELD TICKET

Manson

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
4-26-00	8584	# I 4-6					AL	

CHARGE TO Verde 99 — OWNER

MAILING ADDRESS Rt. 1 Box 34 — OPERATOR

CITY & STATE Savonburg KS 66772 — CONTRACTOR

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5401	1	PUMP CHARGE Cement Pump		427.50
5402	887'	Perf.		88.70
		HYDRAULIC HORSE POWER		
1118	5 SKS	Gel 2 Alfcd 3 in load		52.50
1110	13 SKS	Gilsonite		227.50
1111	10 SKS 500#	Salt		100.00
4402	1	2 7/8" Rubber plug		15.00
		STAND BY TIME		
		MILEAGE		
5501	4 hrs	WATER TRANSPORTS		260.00
		VACUUM TRUCKS		
		FRAC SAND		
1124	90 SKS	CEMENT 50/50 poz		652.50
4151		Fuel Surcharge on 1st Well		N/C
		NITROGEN	Tax	67.04
5407	16 mi	TON-MILES Min Bulk.		N/C
			ESTIMATED TOTAL	1890.74

NSCO #15097

CUSTOMER or AGENTS SIGNATURE — CIS FOREMAN

CUSTOMER or AGENT (PLEASE PRINT) — DATE 4-26-00

167391

ORIGINAL

OILFIELD RESEARCH LABORATORIES

536 N. HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650 - FAX (316) 431-2671

May 31, 2000

Verde Oil Company
8700 Crownhill, Suite 800
San Antonio, TX 78209-1133

Gentlemen:

Attached hereto are the results of testing the rotary core taken from the Manson Lease, Well No. I-4-6, located 2475'FSL and 2805'FEL, Section 29, T26S, R20E, Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on May 1, 2000.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Alan M. Dunning

AMD: td

3 c: San Antonio, TX
2 c: Jeff Dale
Rt. 1, Box 34
Savonburg, KS 66772

ORIGINAL

LOG

Company Verde Oil Company Lease Manson Well No. 1-4-6

Bartlesville Sandstone

Depth Interval, Feet	Description
815.0 – 816.0	Sandstone, brown, with scattered shale inclusions.
816.0 – 816.5	Sandstone, light brown, with scattered shale partings.
816.5 – 816.9	Shale, gray, with scattered light brown, sandstone partings.
816.9 – 822.0	Sandstone, brown, with widely scattered shale nodules and inclusions.
822.0 – 823.0	Sandstone, brown.
823.0 – 823.3	Sandstone, brown, with scattered small shale nodules.
823.3 – 824.1	Sandstone, brown.
824.1 – 824.4	Sandstone, brown, with scattered coal partings.
824.4 – 827.0	Sandstone, brown.
827.0 – 827.2	Shale, gray.
827.2 – 828.8	Sandstone, brown.
828.8 – 829.6	Sandstone, brown, with scattered shale and coal inclusions, and widely scattered shale nodules.
829.6 – 830.0	Sandstone, grayish brown, very shaly.
830.0 – 831.8	Sandstone, brown, with scattered shale and carbonaceous partings.
831.8 – 832.7	Sandstone, brown, with scattered shale and coal partings and widely scattered shale nodules.
832.7 – 833.7	Shale, gray.
833.7 – 834.7	Sandstone, brown, with scattered shale partings and inclusions.

Company Verde Oil Company Lease Manson Well No. I-4-6

LOG (Page 2)

Depth Interval, Feet	Description
834.7 – 836.2	Sandstone, grayish brown, very shaly, with scattered shale, mica, and carbonaceous partings.
836.2 – 836.5	Sandstone, brown, with scattered coal partings and inclusions.
836.5 – 839.6	Sandstone, brown, with widely scattered shale nodules and inclusions.
839.6 – 839.8	Shale, gray.
839.8 – 841.3	Sandstone, grayish brown, with widely scattered shale nodules.
841.3 – 845.8	Sandstone, grayish brown, with widely scattered shale, mica, and carbonaceous partings.
845.8 – 847.9	Sandstone, grayish brown.
847.9 – 849.7	Sandstone, grayish brown, with scattered shale, mica, and carbonaceous partings.

OILFIELD RESEARCH LABORATORIES

RESULTS OF SATURATION & PERMEABILITY TESTS

Company: **Verde Oil Company** Lease: **Manson** Well No. **I-4-6**

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A.Ft.	Permeability Millidarcys
			Oil	Water	Total		
1	815.5	18.3	36	41	77	511	78.
2	817.7	18.6	37	35	72	534	43.
3	818.5	15.7	31	45	76	378	21.
4	819.5	15.6	41	46	87	496	31.
5	820.5	21.1	33	32	65	540	461.
6	821.5	21.3	35	27	62	578	420.
7	822.6	19.3	33	25	58	494	599.
8	823.5	18.1	34	28	62	477	426.
9	824.6	20.0	35	24	59	543	764.
10	825.5	20.7	34	26	60	546	906.
11	826.5	21.0	29	27	56	472	1486.
12	827.6	19.8	33	27	60	507	605.
13	828.5	20.7	26	27	53	418	736.
14	829.4	18.2	25	44	69	353	799.
15	830.5	17.7	35	37	72	481	745.
16	831.5	18.9	33	28	61	484	178.
17	834.5	17.6	29	48	77	396	32.
18	835.6	16.9	36	50	86	472	2.0
19	836.6	19.6	37	39	76	563	343.
20	837.6	18.8	36	35	71	525	306.

OILFIELD RESEARCH LABORATORIES

RESULTS OF SATURATION & PERMEABILITY TESTS

Company: **Verde Oil Company** Lease: **Manson** Well No. **I-4-6**

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A.Ft.	Permeability Millidarcys
			Oil	Water	Total		
21	838.6	20.2	34	34	68	533	400.
22	839.5	19.8	29	36	65	445	228.
23	840.4	20.5	30	40	70	477	268.
24	841.5	18.7	27	38	65	392	91.
25	842.5	19.2	34	39	73	506	155.
26	843.5	20.9	33	30	63	535	82.
27	844.6	16.4	22	47	69	280	40.
28	846.5	19.4	32	32	64	482	50.
29	848.6	17.6	27	37	64	369	54.

OILFIELD RESEARCH LABORATORIES

RESULTS OF LABORATORY FLOODING TESTS

Company: **Verde Oil Company** Lease: **Manson** Well No. **I-4-6**

Sample No.	Depth Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Effective Permeability Millidarcys*
			%	Bbls / A.Ft.	%	Bbls / A.Ft.	% Oil	% Water	Bbls / A.Ft.	
4	819.5	16.0	41	509	2	25	39	59	484	15.32
7	822.6	19.5	33	499	2	30	31	64	469	40.87
10	825.5	20.3	34	535	2	31	32	61	504	89.74
11	826.5	20.7	29	466	0	0	29	66	466	154.15
13	828.5	20.2	26	407	0	0	26	67	407	28.43
16	831.5	18.6	33	476	2	29	31	67	447	34.20
19	836.6	19.6	37	563	5	76	32	65	487	55.44
22	839.5	19.4	29	436	0	0	29	68	436	19.65
25	842.5	18.8	34	496	2	29	32	64	467	13.33
28	846.5	19.2	32	477	0	0	32	60	477	0.10

NOTE: As requested, only samples 4,7,10,11,13,16,19,22,25,and 28 Were subjected to flooding susceptibility tests.

* Determined by passing water through sample which still contains residual oil.