

SIDE ONE

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

Operator: License # 5565
Name: NATIONAL COOPERATIVE
REFINERY ASSOCIATION
Address 6000 WEST 10TH
City/State/zip GREAT BEND, KS. 67530

Purchaser: _____
Operator Contact Person: STEVE BRACKEEN
Phone (316) 793-7824

Contractor: Name: WHITE & ELLIS DRLG.
License: 5420

Wellsite Geologist: THOMAS FUNK

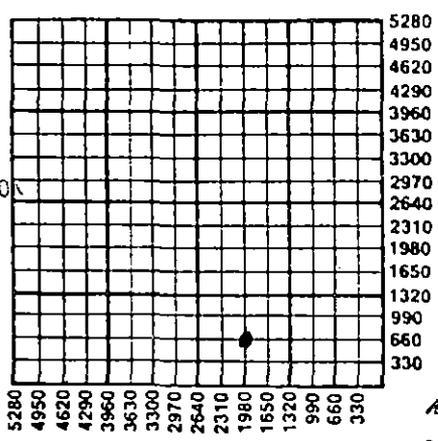
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If **OWO**: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
2-22-90 2-25-90 2-26-90
Spud Date Date Reached TD Completion Date

API NO. 15- 095-21,632-0000
County KINGMAN
C SW SE Sec. 4 Twp. 29 Rge. 10 East West
660 Ft. North from Southeast Corner of Section
1980 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name ECK Well # 1
Field Name _____
Producing Formation _____
Elevation: Ground 1756' KB 1761'
Total Depth 2870' PBTD _____



Amount of Surface Pipe Set and Cemented at 313 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.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Steve Brackeen
Title DISTRICT FOREMAN Date 4/10/90
Subscribed and sworn to before me this 10th day of April, 19 90.
Notary Public Patricia Schultz

Date Commission Expires _____
NOTARY PUBLIC - State of Kansas
PATRICIA SCHULTZ
My Appt. Exp. 1-29-93

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

ORIGINAL

X P1

SIDE TWO

Operator Name N.C.R.A. Lease Name ECK Well # 1
Sec. 4 Twp. 29 Rge. 10 East West
County KINGMAN

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input checked="" type="checkbox"/> Sample Name Top Bottom
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<u>SEE ATTACHMENTS</u>		

CASING RECORD <input 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**	313'	60/40 Poz.	300	3% CaCl ₂ + 2% gel
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		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: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

ORIGINAL

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR NCRA
 LEASE Eck WELL NO. 1
 FIELD Wildcat
 LOCATION C SW SE
 SEC. 4 TWSP. 29 S RNG. 10 W
 COUNTY Kingman STATE KANSAS

ELEVATIONS

KB 1761
 DF _____
 GL 1756

MEASUREMENTS ARE ALL
 FROM KB

CASING RECORD

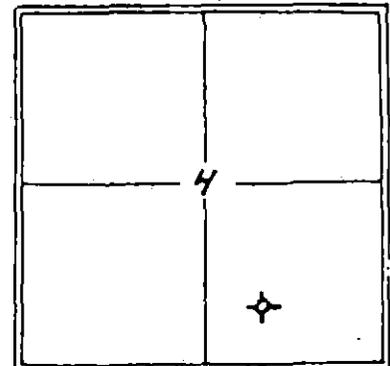
SURFACE 8 5/8" at 313' KB
W/ 300 SX.
 PRODUCTION None

ELECTRICAL SURVEYS

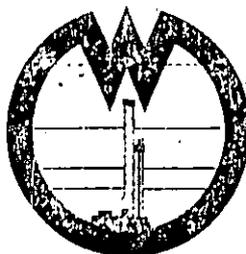
Atlas Wireline
LL3/GR/CAL
ZDLC/CN/GR

CONTRACTOR White & Ellis Drilling Inc. Rig #8
 COMM. 2/21/90 COMP. 2/26/90
 RTD 2870 LOG TD 2872
 SAMPLES SAVED FROM 1500 TO TD
 DRILLING TIME KEPT FROM 1500 TO TD
 SAMPLES EXAMINED FROM 1500 TO TD
 GEOLOGICAL SUPERVISION FROM 1720 TO TD
 MUD UP 1700 TYPE MUD Starch
 WELL SITE GEOLOGIST Thomas Funk

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
Herrington	1771	(-10)	1772	(-11)	+13
Winfield	1835	(-74)	1836	(-75)	+11
Towanda	1901	(-140)	1903	(-142)	+14
Cottonwood	2321	(-560)	2321	(-560)	+10
Onaga Sh	2551	(-790)	2550	(-789)	+12
Wabauwsee	2591	(-830)	2590	(-829)	+14
Tarkio	2748	(-987)	2747	(-986)	+9
Elmout	2809	(-1048)	2807	(-1046)	+9
TD	2872		2870		



REFERENCE WELL FOR STRUCTURAL COMPARISON ZXO #1 Albers 'A'
2310 FEL; 1320 FSL sec. 9-29s-10w. Kingman County. Kansas



WHITE

AND ELLIS DRILLING, Inc.

DRILLERS LOG

OPERATOR: N.C.R.A., 1775 Sherman St. - #3000, Denver, CO 80203

CONTRACTOR: White & Ellis Drilling, Inc., 401 E. Douglas, Suite 500,
Wichita, Ks. 67202

Lease Name Eck Well No. 1

Sec. 4 T. 29S R. 10W Spot C SW SE

County Kingman State Kansas Elevation _____

Casing Record:

Surface: 8 5/8" @ 313' with 300 sx. 3% CC 2% Gel

Production: _____ @ _____ with _____ sx.

Type Well: D & A Total Depth 2870'

Drilling Commenced 2-21-90 Drilling Completed 2-26-90

Formation	From	To	Tops
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Cellar	0	7	
Lime, Shale	7	2870	



A Baker Hughes Company

CREDIT COPY

INVOICE DATE
02/26/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS: NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: SJ-TITAN SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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AUTHORIZED BY 551690

PURCH. ORDER REF. NO.

N C R A

1775 SHERMAN ST., SUITE 300

DENVER

CO 80203

WELL NUMBER : 1

CUSTOMER NUMBER : 02582070

LEASE NAME AND NUMBER ECK	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB 02/26/90	TYPE OF SERVICE LAND-PLUG AND ABANDON		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10109820	1.00	FIRST WELL	375.00		375.00
10109005	48.00	HILEAGE CHRG. FROM NEAREST BASE OF	1.10		52.80
10410504	84.00	CLASS "A" CEMENT	5.30	CF	445.20
10415015	56.00	DIAMIX F	2.61	CF	146.16
10420145	4.82	SJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CK	32.54
10940101	151.20	DRAYAGE, PER TON MILE	0.70		105.84
10880001	140.00	MIXING SERVICE CHRG DRY MATERIALS, P	0.95		133.00
SUBTOTAL					1,290.54
DISCOUNT					161.04

ACCOUNT	4.250000% STATE TAX	531.55	22.59
	1.000000% COUNTY TAX	531.55	5.32

TAX EXEMPTION STATUS:	PAY THIS AMOUNT →	1,127.41
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BJ TITAN SERVICES

DISTRICT COP

INVOICE DATE
02/21/90

DIRECT BILLING INQUIRIES TO: 713-295-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ-TITAN SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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AUTHORIZED BY
551660

PURCH. ORDER REF. NO.

N C R A
1775 SHERMAN ST., SUITE 300
DENVER CO 80203

WELL NUMBER : 1 CUSTOMER NUMBER : 02582020

LEASE NAME AND NUMBER ECK	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME MEDICINE LODGE	DISTR. NO. 3350
JOB LOCATION/FIELD	MTA-DISTRICT	DATE OF JOB 02/21/90	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100305	1.00	CEMENTING CASING 300 TO 1500 FT.	375.00		375.00
10100310	13.00	PLUS PER FOOT BELOW 300 FT.	0.42		5.46
10109005	48.00	MILEAGE CHRG, FROM NEAREST BASE OF	1.10		52.80
10430536	1.00	8-5/8" TOP RUBBER PLUG	100.00	EA	100.00
10410504	180.00	CLASS "A" CEMENT	5.30	CF	954.00
10415018	120.00	DIAMIX F	2.61	CF	313.20
10420145	5.16	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CB	34.83
10415049	774.00	A-7-P CALCIUM CHLORIDE PELLETS	0.33	LB	255.42
10880001	300.00	MIXING SERVICE CHRG DRY MATERIALS, P	0.95		285.00
10940101	328.80	DRAYAGE, PER TON MILE	0.70		230.16
10409600	1.00	A F INSERT (B)	246.00	GL	246.00
10409600	3.00	8 5/8 CENT (B)	57.75	GL	173.25
10409600	1.00	THREADLOK KIT (B)	20.00	GL	20.00
SUBTOTAL					3,045.12
DISCOUNT					669.93

ACCOUNT	4.25000% STATE TAX	1635.43	69.50
	1.00000% COUNTY TAX	1635.43	16.35

TAX EXEMPTION STATUS: PAY THIS AMOUNT 2,461.04