

033-21027 0000

ORIGINAL

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

Operator: License # 6528

Name: R. J. Patrick Operating Company

Address P O Box 1157

City/State/Zip Liberal, Kansas 67905-1157

Purchaser: Kansas Gas Supply

Operator Contact Person: R. J. Patrick

Phone (316) 624-8483

Contractor: Name: Duke Drilling Co. Inc.

License: 5929

Wellsite Geologist: Marvey Harvey

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, 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 PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

09/10/99 09/23/99 10-05/99
Spud Date Date Reached TD Completion Date

API NO. 15- 033-21027 0000
County Comanche County, Kansas
SE/4 SW/4 NE/4 Sec. 4 Twp. 32 Rge. 19 E W

2310 Feet from SW (circle one) Line of Section
1650 Feet from EW (circle one) Line of Section

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

Lease Name Inez Bean Well # 1-4

Field Name Wildcat

Producing Formation Mississippian

Elevation: Ground 2115' KB 2123'

Total Depth 5370' PBDT 5359'

Amount of Surface Pipe Set and Cemented at 682 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 682

surface after
feet depth to 1" from 145' w/ 425 sx cat.

Drilling Fluid Management Plan AA-1 4-13-00 OK
(Data must be collected from the Reserve Pit)

Chloride content 7000 ppm Fluid volume 630 bbls

Dewatering method used settled water & hauled

Location of fluid disposal if hauled offsite: _____

Operator Name KBW Oil & Gas

Lease Name Harmon SWD License No. 5993

NW Quarter Sec. 11 Twp. 33S S Rng. 20W E/W

County Comanche Docket No. 22304

STATE CORPORATION COMMISSION
RECEIVED
MAR 28 2000
OIL & GAS CONSERVATION DIVISION
Wichita, Kansas

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 RJ Patrick

Title Owner Date 3-27-2000

Subscribed and sworn to before me this 27th day of MARCH, 2000.

Notary Public Jayn Berry
04-04-2000

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

NOTARY PUBLIC
KANSAS
JAYN BERRY
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Expires: 2-4-2000

X

Operator Name R. J. Patrick Operating Company Lease Name Inez Bean Well # 1-4

Sec. 4 Twp. 32 Rge. 19
 East
 West

County Comanche County, Kansas

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	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner Shale	4364	-2234
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Toronto	4372	-2242
List All E.Logs Run: Dual Induction-Dual Compen. Porosity-Micro-Compensated Sonic and Geological Log.		Lansing	4565	-2435
		Marmaton	5026	-2896
		Pawnee	5110	-2980
		Ft. Scott	5142	-3012
		Cherokee Shale	5153	-3023
		Mississippi	5232	-3102

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
Conductor	17-1/2"	13-3/8"	54#	285'	Lite Common	100 200	3% CC
Surface	12-1/4"	8-5/8"	24#	685'	65/35 Poz class A	225 200	3%CC 2%Gel
Production	7-7/8"	4-1/2"	10.5#	5370'	50/50 Poz	310.	18% salt

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	5314 to 5320 - 5290 to 94+5240 to 46"	1500 gals MCA	5240-5320
2	5122 to 26	1000 gals MCA	5122-26	
4	4871 to 72	250 gals MCA	4871-72	
4	4595 to 99	500 gals MCA	4595 to 99	

TUBING RECORD	Size 2 3/8	Set At 5260	Packer At 5264	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 10/27/99 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 0	Bbls.	Gas 1219	Mcf	Water 0	Bbls. 0	Gas-Oil Ratio	Gravity / GAS 604 -
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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 _____

R. J. PATRICK OPERATING COMPANY

MAILING ADDRESS P.O. BOX 1157
326 NORTH LINCOLN
LIBERAL, KANSAS 67905-1157

316-624-8483

October 6, 1999

COMPLETION REPORT

RECEIVED
KANSAS CORP COMM

1999 OCT 29 A 11:48
10-29-99

RE: Inez Bean 1-4
NE/4 Section 4-32S-19W
Comanche County, Kansas

- 09/27/99 Moved in Completion Rig and rigged up.
- 09/28/99 Rigged up Unit. Rigged up loggers and ran Cement Bond Log. Had good cement bond. Plug back total depth - 5359'. Perforated 5314' to 5320'-5290' to 5294' - and 5240' to 5246'. Swabbed hole down, had slight show of gas. Shut in overnight.
- 09/29/99 Shut-in pressure 420#'s. Treated w/1500 gals. of 15% MCA Acid. Broke down @ 1500#. Treated @ 800# @ 5 bbls. per minute. Balled off after 750 gals. in formation. Surged balls off perms and treated w/balance of Acid @ 6 bbls per minute @ 700#'s. Swabbed back load. Making approximately 500,000 gas per day and 8 bbls water per hr.
- 09/30/99 Tripped in hole w/packer and bridge plug. Set packer above lower perms. Swabbed well and lower zone started flowing. Flowed 10 hrs. and well making approximately 75000 gas per day w/6 bbls. water per hr. Shut in overnight. Perforated Pawnee Zone - 5122' to 5126'-4 feet - 2 holes per ft.
- 10/01/99 Shut in pressure 120#. Moved Bridge Plug above lower perms and set Packer above Upper Mississippi perms. Swabbed well in making approximately 750,000 per day and 3½ bbls water per hr. Shut in overnight.
- 10/02/99 Shut in pressure 1500#. Moved packer and bridge plug. Set plug above Upper Mississippi Zone. Set packer above Pawnee Zone. Acidized w/1000 gals of MCA Acid. Broke down @ 1000#. Treated @ 3½ bbls per minute @1300#. Instant shut down 700# down to 500# in 20 minutes. Swabbed back load. Had slight show of gas and no water. Moved bridge plug above Pawnee Zone. Perforate Swope Zone - 1 ft. -4 holes @ 4871' to 4872'. Tripped in hole with packer. Shut down overnight.
- 10/03/99 Treated Swope Zone w/250 gal of MCA Acid. Broke down @ 1000#. Treated @ 1½ bbls. per minute @ 1050#. Instant shut down pressure 700#. Bled off to 450# in 20 minutes. Swabbed back load of 47 bbls. No show of gas or oil. Making 3 bbls salt water per hour. Moved bridge plug above Swope Zone. Pull tubing and packer. Perforated Lansing Zone @ 4595' to 4599' - 4 holes per ft. Tripped in hole w/packer. Spotted packer above Lansing perms. Shut down overnight.
- 10/04/99 Acidized Lansing perms w/500 gals of 15% MCA. Broke down @ 1250'. Treated @ 3½ bbls per minute @ 1250#. Instant shut down pressure - 700# down to 450# in 20 minutes. Have 30 bbls load to recover. Swabbed load. Had no show of gas or oil or water. Tripped out of hole w/packer and bridge plug. Tripped in hole w/packer H&F special seating nipple and back pressure valve on bottom of packer. Set for 1600#. Had 2 packer sleeves covering Swope Zone and Lansing Zone. Left well open to tank to flow. Flowing in tank overnight.
- 10/05/99 Left well open overnight. Ran rods and pump - 2"X1½"X16' pump with sliding sleeve. Ran 120 5/8" rods (plain) and 90 3/4" plain with no subs. 1 - 22'X1½" polish rod w/1-8'X1½" liner. Landed on clamp. Waiting on Pumping Unit. Released Completion Unit, cleaned location and moved off location. Job Complete.

R. J. PATRICK OPERATING COMPANY

MAILING ADDRESS P.O. BOX 1157

326 NORTH LINCOLN

LIBERAL, KANSAS 67905-1157

316-624-8483

ADDITIONAL COMPLETION REPORT

ORIGINAL

RECEIVED
KANSAS CORP COMM

1999 OCT 29 A 11:48

RE: Inez Bean 1-4
NE/4 Section 4-32S-19W
Comanche County, Kansas

- 10/12/99 Move in Completion Unit and rig up.
- 10/13/99 Pull rods and tubing out of hole. Perforate lower Mississippi 5314' to 5320', 4 holes per ft. Tripped in hole w/packer and acidized perfs w/1000 gals of 15% MCA. Broke down @ 800#'s. Treated @ 3 bbls. per minute @ 800#'s. On instant vacuum @ shut-down. Test for disposal zone would not take fluid on vacuum.
- 10/14/99 Tripped out of hole w/packer. Tripped in hole w/packer and vent packers for production. Vent Packer set across Pawnee Zone, Swope Zone and Upper Lansing Zone. Tripped in hole w/pump and rods. Acidized Lower Mississippi Zone w/500 gals 15% acid. Released Completion Unit and rig down. Move off location. Started pumping unit. Pumped 16 bbls and pump stuck and quit pumping.
- 10/21/99 Move Unit to location and rigged up. Pulled rods and pump. Shut-down overnight.
- 10/22/99 Tripped out of hole w.tubing and packers. Tripped in hole with straddle packers and straddle Upper Mississippi Zone. Swabbed and flowed 103 bbls. Shut well in. Pressure builds to 1000#'s in 4 hours. Opened well to tank overnight.
- 10/23/99 Flowed 70 bbls load water overnight. Started flow test. Making approximately 390,000 gas and 3½ bbls of load water and formation water per hour, for 6 hours. Flowing on 19/64th choke, 250#'s tubing pressure. Shut well in. Rigged down Work-Over Unit and moved off location.
- 10/24/99 Shut in tubing pressure - 1575#'s.
- 10/25/99 Shut in tubing pressure - 1575#'s.

ALLIED CEMENTING CO., INC. ORIGINAL 2933

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Medida
9-12-99

DATE <u>9-12-99</u>	SEC <u>4</u>	TWP <u>32</u>	RANGE <u>19</u>	CALLED OUT <u>4:00 PM</u>	ON LOCATION <u>9:30 AM</u>	JOB START <u>5:00 AM</u>	JOB FINISH <u>5:30 AM</u>
LEASE <u>Inez Bran</u>		WELL # <u>1-4</u>		LOCATION <u>Coldwater - 2N, 2W, 15, Lawrence</u>		COUNTY <u>Nowa</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)							

CONTRACTOR Dale Aug #1
 TYPE OF JOB Conductor
 HOLE SIZE 17 1/2" T.D. 285
 CASING SIZE 13 3/8" New Sp. S DEPTH 283'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 200 # MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 49'
 CEMENT LEFT IN CSG. 44'
 PERFS. _____
 DISPLACEMENT 37.10 bbls
 EQUIPMENT
 PUMP TRUCK CEMENTER Tom D
 # 352 HELPER Shane W.
 BULK TRUCK
 # 258 DRIVER Rich W
 BULK TRUCK
 # _____ DRIVER _____

OWNER Same
 CEMENT
 AMOUNT ORDERED 200 lbs Litesort 3% CC,
4" Dosed / sh - 100 lbs Common 3% CC,
2% Red.
 COMMON @ _____
 POZMIX @ _____
 GEL @ _____
 CHLORIDE @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING @ _____
 MILEAGE _____
 TOTAL _____

REMARKS:
Ran 283' of 13 3/8" cas. Brake circulation
Mixed 200 lb Litesort 3% CC, 1/4" Dosed - sk
followed by 100 lb common 3% CC, 2% Red.
Released Plug. Deployed with fresh H₂O.
Cement did circulate.

SERVICE
 DEPTH OF JOB 263'
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE @ _____
 MILEAGE @ _____
 PLUG 1-13 3/8" Twp @ _____
 @ _____
 @ _____
 TOTAL _____

CHARGE TO: RJ Otterch Operating Co.
 STREET P.O. Box 1157
 CITY Liberel STATE Ks ZIP 67905-1157

FLOAT EQUIPMENT
1-13 3/8" Ball Plate @ _____
2-13 3/8" Barbits @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Marvin Harvey

SIGNATURE MARVIN HARVEY
 PRINTED NAME

RECEIVED
STATE CORPORATION COMMISSION

12/18
AUG 29 1999
CONSERVATION DIVISION
Wichita, Kansas

ALLIED CEMENTING CO., INC.

2666

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
MEDICINE LODGE

DATE <u>9-13-99</u>	SEC. <u>4</u>	TWP. <u>32S</u>	RANGE <u>19W</u>	CALLED OUT <u>7:00 PM</u>	ON LOCATION <u>10:30 PM</u>	JOB START <u>5:00 AM</u>	JOB FINISH <u>7:00 AM</u>
LEASE <u>BEAN</u>	WELL # <u>1-4</u>	LOCATION <u>COLDWATER 2N, 2W</u>			COUNTY <u>COMANCHE</u>	STATE <u>KANSAS</u>	
OLD OR (NEW) (Circle one)		<u>LS, 1 1/2 W</u>					

CONTRACTOR DUKE ORLB #1

TYPE OF JOB SURFACE CASING

HOLE SIZE 12 1/4" T.D. 687'

CASING SIZE 8 5/8" x 24# DEPTH 682'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 500# MINIMUM _____

MEAS. LINE _____ SHOE JOINT 42.44'

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 40 1/2 BBLs. FRESH H2O

OWNER R. J. PATRICK OPER. Co.

CEMENT AMOUNT ORDERED

225 SK 6S:35:6 + 3% CMC + 1/4# FIO-SEAL

200 SK CLASS A + 3% CMC + 2% BEL

COMMON <u>A</u>	<u>200</u>	@	<u>6.35</u>	<u>1270.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>9.50</u>	<u>38.00</u>
CHLORIDE	<u>14</u>	@	<u>28.00</u>	<u>392.00</u>
<u>ALW</u>	<u>225</u>	@	<u>6.00</u>	<u>1350.00</u>
<u>FIO-SEAL</u>	<u>56#</u>	@	<u>1.15</u>	<u>64.40</u>
		@		
		@		
		@		
HANDLING	<u>425</u>	@	<u>1.05</u>	<u>446.25</u>
MILEAGE	<u>425 x 50</u>	@	<u>.04</u>	<u>850.00</u>

TOTAL \$ 4410.65

EQUIPMENT

PUMP TRUCK CEMENTER BUD BRUNBARDT

352 HELPER KEVIN BRUNBARDT

BULK TRUCK

240-251 DRIVER RICK WEISER

BULK TRUCK

_____ DRIVER _____

REMARKS:

RUN 8 5/8" CSG. & BREAK CIRCULATION

RUN 5 BBLs. FRESH H2O

MIX 225 SK ALW + 3% CMC + 1/4# FIO-SEAL

" " 100 SK CLASS A + 3% CMC + 2% BEL

DISPLACE PLUG TO 640' / 40 1/2 BBLs.

FLOAT DID HOLD! CEMENT DID

NOT CIRC. - RUN 145' 1" & CIRCULATE

CEMENT TO SURFACE / 100 SK A + 3% CMC + 2% BEL.

SERVICE

DEPTH OF JOB 682'

PUMP TRUCK CHARGE 0-300' 470.00

EXTRA FOOTAGE 382' @ .43 164.26

MILEAGE 50 @ 2.85 N/C

PLUG 8 5/8" TRP @ 90.00 90.00

_____ @ _____

_____ @ _____

TOTAL \$ 724.26

CHARGE TO: R. J. PATRICK OPERATING Co.

STREET P.O. Box 1157,

CITY GERAL STATE KANSAS ZIP 67905

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE \$ 5134.91

DISCOUNT 1026.98 IF PAID IN 30 DAYS

Net \$ 4107.93

MARVIN HARVEY

PRINTED NAME

SIGNATURE X Marvin Harvey

ALLIED CEMENTING CO., INC. 2727

Federal Tax I.D.# 48-0727860

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL
SERVICE POINT:
Medicine Lodge

15-033-21027

DATE <u>9-24-99</u>	SEC <u>4</u>	TWP. <u>32S</u>	RANGE <u>19W</u>	CALLED OUT <u>3:00 pm</u>	ON LOCATION <u>5:00 pm</u>	JOB START <u>9:45 pm</u>	JOB FINISH <u>10:25 pm</u>
LEASE <u>Bean</u>	WELL # <u>1-4</u>	LOCATION <u>Coldwater, 2N, 2W,</u>			COUNTY <u>Comanche</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1S, 16 W to location</u>					

CONTRACTOR Duke #1 OWNER R J Patrick

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 5370 CEMENT

CASING SIZE 4 1/2 x 10.5 DEPTH 5370 AMOUNT ORDERED 32.5 sx 50:50:2 +

TUBING SIZE _____ DEPTH _____ 18% SALT + .25% CD 31 + 1/4 Flo-seal

DRILL PIPE _____ DEPTH _____ 9 Gal Clapro

TOOL _____ DEPTH _____

PRES. MAX 1500 MINIMUM _____

MEAS. LINE _____ SHOE JOINT 10 FT

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 88 BBLs 2% KCL

EQUIPMENT

PUMP TRUCK CEMENTER Art Balding

261-265 HELPER Kevin B

BULK TRUCK _____

214-314 DRIVER Robert B

BULK TRUCK _____

_____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

SERVICE

Pipe on bottom, break circulation. DEPTH OF JOB 5370

plug RAT + mouse hole w/ 25 sx. PUMP TRUCK CHARGE _____

Mix + pump 300 50:50:2 + 18% SALT + .25% CD 31 + 1/4 Flo-seal. Cement in stop pumps, wash EXTRA FOOTAGE _____ @ _____

pump + lines, + Release plug. MILEAGE _____ @ _____

Displace plug with 88 BBLs 2% KCL water. PLUG Rubber _____ @ _____

Land plug - Release pressure, float held. _____ @ _____

TOTAL _____

CHARGE TO: R J Patrick Operating Co.

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.

You are hereby requested to rent cementing equipment

and furnish cementer and helper to assist owner or

contractor to do work as is listed. The above work was

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contractor. I have read & understand the "TERMS AND

CONDITIONS" listed on the reverse side.

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE R J Patrick PRINTED NAME R J Patrick

RECEIVED
STATE CORPORATION COMMISSION

SEP 29 1999

CONSERVATION DIVISION
Wichita, Kansas

Date 9-24-99 District Med-Lodge Ticket No. 2227
 Company R J Patrick Operating Rig Duke #1
 Lease Dean Well No. 1-4
 County Carrache State KS
 Location Coldwater 2 N, 2 W Field 4-325-19W
is winter

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 4 1/2 Type _____ Weight 10.5 Collar _____
New

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

Casing Depths: Top 18-10" Bottom 5370

LEAD: Pump Time _____ hrs. Type _____
50:50=2+18 1/2 salt .75 CD31 X F19 Excess _____
 Amt. 300 Skys Yield 1.25 ft³/sk Density 14.5 PPG
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
 WATER: Lead 5.34 gals/sk Tail _____ gals/sk Total 39 Bbls.

Drill Pipe: Size 4 1/2 Weight 16.60 Collars _____
 Open Hole: Size 7 1/2 T.D. _____ ft. P.B. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0159 Lin. ft./Bbl. 62.70
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0406 Lin. ft./Bbl. 24.64
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Pump Trucks Used 261-265 Kevin B
 Bulk Equip. 214-314 Robert B

Float Equip: Manufacturer (did not supply)
 Shoe: Type _____ Depth _____
 Float: Type AFU Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type 2 1/2 KCL Amt. 88 Bbls. Weight 8.34 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE R J Patrick

CEMENTER Carl Belding

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	ANNULUS	DRILL PIPE CASING	TOTAL FLUID	Pumped Per Time Period	RATE Bbls./Min.	
5:00						on location + Rig up.
9:00						Pipe on bottom, break circulation
9:40						Circulate for plug mouse hole w/ 10 sk 50:50
9:44		500	3.5	32	2	plug hole w/ 15 sk 50:50
9:55			65.5	62	6	mix + pump 30 sk 50:50. LEAD cement.
						Cement in stop pumps
						switch valves + wash pump + lines
9:59	150				5 1/2	switch valves + Release plug
	150					Start Displacement
	200		88 1/2	23		Steady Rate
	200				5	Cement turn slow
	400		115 1/2	27	5	Slow Rate.
	700		125 1/2	10	4	See lift pressure
	950		153 1/2	28	3	slow Rate
10:20	1500					Displacement in stop pumps + Land Plug.
						Release pressure + float field



CEMENTING LOG

ORIGINAL
STAGE NO.

Date 9-99 District 1150.1065 Ticket No. 2666
 Company R.J. PATRICK OIL CO. Rig LINE #1
 Lease DEAN Well No. 1-4
 County COMANCHE State KANSAS
 Location 4-32-AW Field
COLDWATER SW 2nd 1st 1 1/2
 CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 3 1/8" Type F-55 Weight 24# Collar SRD

CEMENT DATA:
 Spacer Type: FRESH H₂O
 Amt. _____ Skys Yield _____ ft³/sk Density 3.24 PPG

LEAD: Pump Time _____ hrs. Type 65:25:6
+ 2 1/2% CC + 1/4" # FLO-SEAL Excess _____
 Amt. _____ Skys Yield 1.93 ft³/sk Density 13.5 PPG
 TAIL: Pump Time _____ hrs. Type CLASS A
+ 2 1/2% CC + 2 1/2% BEL Excess _____
 Amt. 100 Skys Yield 1.24 ft³/sk Density 15.5 PPG
 WATER: Lead 10.9 gals/sk Tail 6.51 gals/sk Total 56.6 Bbls.

PURST - 2950#
COLLAPSE - 1370#
 Casing Depths: Top RV Bottom 632'

Pump Trucks Used 302 KEVIN BRUNGAULT
 Bulk Equip. 240-251 KECK WETSER

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
 Open Hole: Size 12 1/4" T.D. 637 ft. P.B. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.7'
 Open Holes: Bbls/Lin. ft. .1453 Lin. ft./Bbl. 6.85'
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0735 Lin. ft./Bbl. 12.6'
3 1/8" x 1 3/8" Bbls/Lin. ft. .0323 Lin. ft./Bbl. 12.2'
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer SUPPLIED BY CUSTOMER
 Shoe: Type TEXAS PATERN Depth 632'
 Float: Type AFU Depth 640'
 Centralizers: Quantity 2 Plugs Top RUBBER Btm. _____
 Stage Collars _____
 Special Equip. BAKETS - @ 160' & 200'
 Disp. Fluid Type FRESH H₂O Amt. 40% Bbls. Weight 3.24 PPG
 Mud Type PREMIX & NATIVE Weight _____ PPG

COMPANY REPRESENTATIVE MARVIN HARVEY

CEMENTER BUD BRUNGAULT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
10:30						ON LOCATION, RIG UP
5:00						RUN 343" L.G. & BREAK CIRCULATION
	150			5	5	RIG UP TO PERMITS PUMP
	150		5	5	6	START FRESH H ₂ O
	200		34	79	6	FRESH H ₂ O IN - START LEAD SLURRY
	250		103	24	6	LEAD SLURRY IN - START TAIL SLURRY
						TAIL SLURRY IN - STOP PUMP
						CHANGE VALVE - RELEASE PLUG
				2	2	START DISPLACEMENT - NO RETURNS
	50		110	4	4	INCREASE RATE
	175		125	65	4	SLIGHT PSI INCREASE
	150		134	9	2	LOW RATE
6:00	300		144 1/2	10 1/2	3	BUILD PLUG & HOLD PSE
						RELEASE PSI & FLOAT HOLOS
7:00	450		163 1/2	24	2	RUN 145' 1" - BREAK CIRCULATION
						MIX 100% CLASS A + 2 1/2% PACE + 2 1/2% BEL

RECEIVED
 STATE CORPORATION COMMISSION
 SEP 29 1999
 CONSERVATION DIVISION
 Wichita Kansas

FINAL DISP. PRESS. 300 PSI BUMP PLUG TO 500 PSI BLEEDBACK 1/4 BBLs. THANK YOU

WEDER SERVICES, INC.

P.O. BOX 1087
WOODWARD, OK 73802

PHONE (580) 256-9371
FAX (580) 256-6997

R.J. PATRICK OPERATING CO.
P.O. BOX 1157
LIBERAL KS 67905-1157

08/18/99

19491

LEASE NAME: INES BEAR 1-4
RIG # DUKE RIG
WORK ORDER #15617
FURNISHED WELDER & MATERIAL
FURNISHED MUD, WATER, & TRUCKING
FURNISHED GROUT PUMP
DRILLED 81' OF 30" CONDUCTOR HOLE
DRILLED 5' OF 60" HOLE FOR CELLAR
FURNISHED 81' OF 20" CONDUCTOR PIPE
FURNISHED GROUT
TOTAL BID \$6,015.00
INSURANCE SURCHARGE \$120.30

THANK YOU!!!!

1 DC

TOTAL BID, FUEL, AND INSURANCE
SALES TAX
TOTAL INVOICE

PAID
8-31-99
#5165
IBEANIP
\$6178.50

6,135.30
43.20
6,178.50

RECEIVED AUG 23 1999

SERVICES:

- Welding • Dozers • Roustabouts
- Backhoe • Cargo • Trucking
- Conductor Service

DIVISIONS:

Conductor Services 256-9371	Weder Service 254-5383	L & L Dirt Co. 921-3375 254-5379	Tri-State Construction 256-0605
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WEDER SERVICES, INC.

P.O. BOX 1087 • WOODWARD, OK 73802 • PHONE 580-256-9371 • FAX 580-256-6997

15617

Ordered by: _____

FOR: R. J. Patrick

Date: _____

LEASE: Ines Bear #14

Rig #: Duke

Drilled 81 ' of 30 " Conductor Hole

For

Drilled 5 ' of 60 " Hole & Set ~~_____~~ Tinhorn Cellar

Furnished Backhoe

Furnished 81 ' of 20 " Conductor Pipe

Furnished Shucks Rat Mouse

Furnished Mud, Water, & Trucking

Furnished Welder & Materials

Furnished Grout

Furnished Grout Pump

Drilled Rat & Mouse Holes

Rock Time _____ Hrs

TOTAL BID 6015⁰⁰

STATE SALES TAX 4 1/2% 4320

COUNTY SALES TAX _____ %

INSURANCE SURCHARGE 120.30

FUEL SURCHARGE _____

TOTAL INVOICE 6178.50

SPC - Woodward 14262-RD3