

APR 15 2004  
ENTERED

CONFIDENTIAL

ACO-4  
8/90

04-CONS-323 - CCOM

OPERATOR Sho-Bar Energy, Inc. DOCKET # CO030402 DATE \_\_\_\_\_  
 ADDRESS 215 E 14th OPERATOR'S LICENSE # 7744  
Harper, KS 67058 API NO. 15- 119 21117 00 00  
 LEASE Sutherland WELL NO. 2 8  
 QUARTER NW \_\_\_\_\_ SEC 8 TWP 35S RGE 26 E \_\_\_\_\_  
 W \_\_\_\_\_ X \_\_\_\_\_

COMMINGLING 82-3-123

RECEIVED  
KANSAS CORPORATION COMMISSION

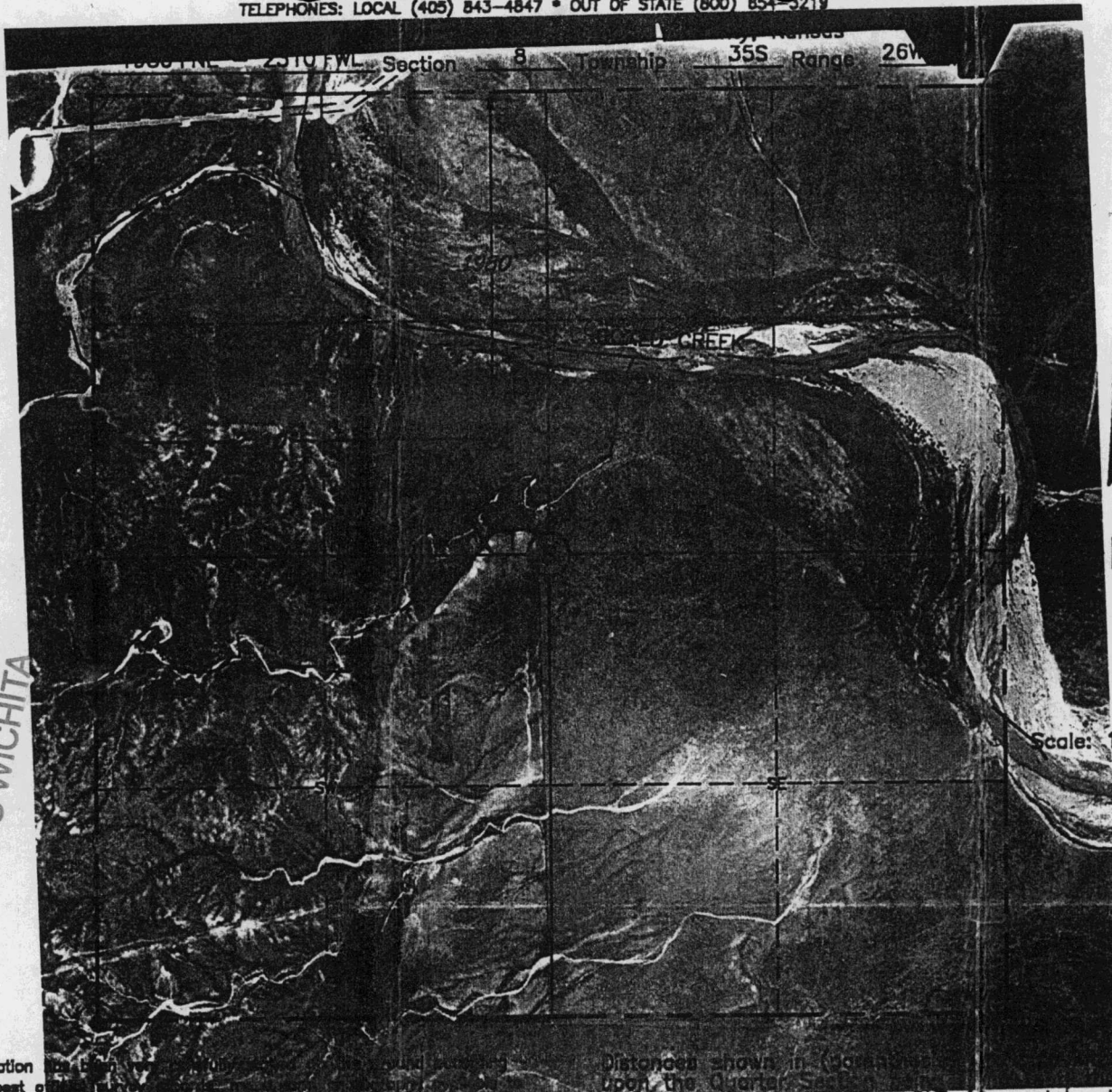
MAR 11 2004

CONSERVATION DIVISION  
WICHITA, KS

- X 1. Description of the well.  
 A plat showing:  
 a) Location of subject well.  
 b) Location of other wells on the lease.  
 c) Location of offsetting wells and operator's name.
- X 2. Names and upper and lower limits of the source of supply involved.
- |                      |                     |             |
|----------------------|---------------------|-------------|
| (NAME) <u>Morrow</u> | (PERFS) <u>6002</u> | <u>6012</u> |
| (NAME) <u>Miss</u>   | (PERFS) <u>6036</u> | <u>6115</u> |
| (NAME) _____         | (PERFS) _____       | _____       |
- X 3. Wireline log of the subject well.
- X 4. A complete ACO-1 form.
- X 5. Expected production, oil-gas-water, for each source of supply.
- |                                |               |                |                 |
|--------------------------------|---------------|----------------|-----------------|
| FORMATION <u>Morrow</u>        | BOPD _____    | MCF <u>200</u> | BWPD _____      |
| FORMATION <u>Miss</u>          | BOPD <u>1</u> | MCF <u>200</u> | BWPD <u>1.5</u> |
| FORMATION _____                | BOPD _____    | MCF _____      | BWPD _____      |
| FORMATION _____                | BOPD _____    | MCF _____      | BWPD _____      |
| ESTIMATED COMBINED TOTAL _____ | BOPD <u>1</u> | MCF <u>400</u> | BWPD <u>1.5</u> |
- X 6. Application shall be supported by an Affidavit and shall contain a certificate showing service of a copy of the application without attachments to the offsetting operators. You are responsible for this. Unless waivers are obtained, applications are held for fifteen days to give offsetting operators time to file objections. If waivers are obtained, applications can be processed immediately. If objections are filed, applications are then set for hearing.

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
 87 NORTH CLASSEN BLVD. • OKLAHOMA CITY, OKLA. 73102  
 TELEPHONES: LOCAL (405) 843-4847 • OUT OF STATE (800) 854-3219



RECEIVED  
 MAR 11 2004  
 KCC WICHITA

Scale: 1" = 1000'

This location was determined by GPS and based on the best of our knowledge, but its accuracy is not guaranteed. Review this plot and notify us immediately of any possible discrepancy.

Distances shown in [brackets] are based on GLO (General Land Office) data and have not been measured.

Operator: SHO-BAR ENERGY, INC.  
 Lease Name: SUTHERLAND

Well No.: 2-8

**ELEVATION:**  
2194' Gr. at Stake

Topography & Vegetation Loc. fell in sloped rough pasture

Good Drill Site? Yes Reference Stakes or Alternate Location None  
 Stakes Set None

**CONFIDENTIAL**

Best Accessibility to Location From North  
 Distance & Direction From Englewood, KS, go ±9.0 mi. West to trail road SW, then ±1.0 mi. South following trail road to the North line of Sec. 8-T35S-R26W.

The following information was gathered using a GPS receiver  
 Accuracy ±2-3 Meters.

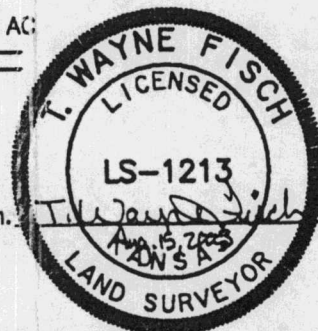
Invoice # 89503 Date Staked: Aug. 12, 2003 AC:

GPS  
 DATUM: NAD-27  
 LAT: 37°01'01.1"N  
 LONG: 100°10'16.7"W  
 STATE PLANE  
 COORDINATES:  
 ZONE: KS SOUTH  
 X: 1512022  
 Y: 131932

**CERTIFICATE:**

I, T. Wayne Fisch a Registered Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

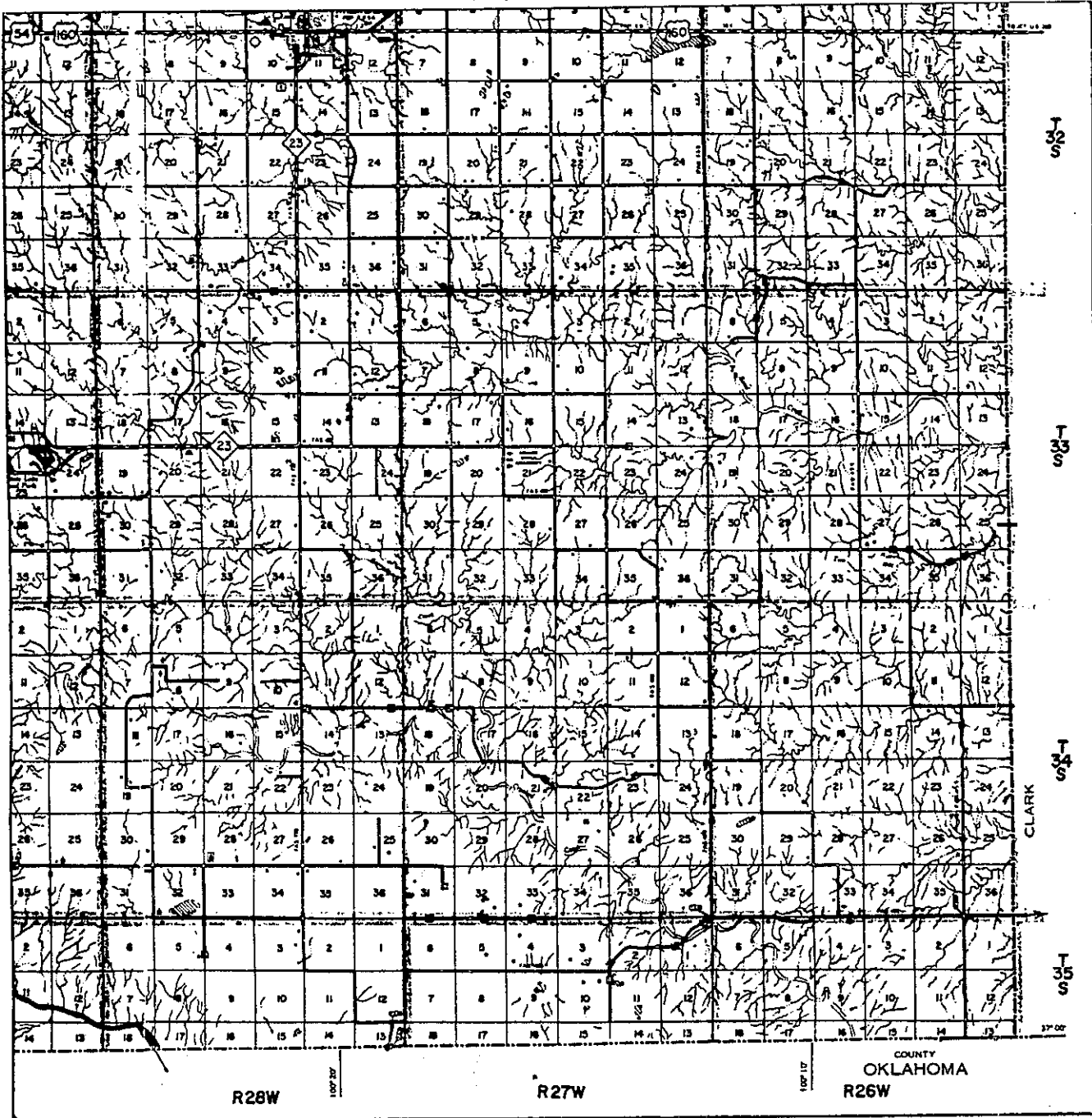
Kansas Reg. No. 1213



# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com  
Telephone Numbers: Local (405) 843-4847 Out of State (800) 654-3219

## VICINITY MAP



Scale: 1" = 3 Miles

Sec. 8 Twp. 35S Rng. 26W  
County MEADE State OK  
Operator SHO-BAR ENERGY, INC.

**CONFIDENTIAL**  
**TOPOGRAPHIC**  
SURVEYING • MAPPING • GIS • GPS  
LAND SURVEYORS  
OF OKLAHOMA

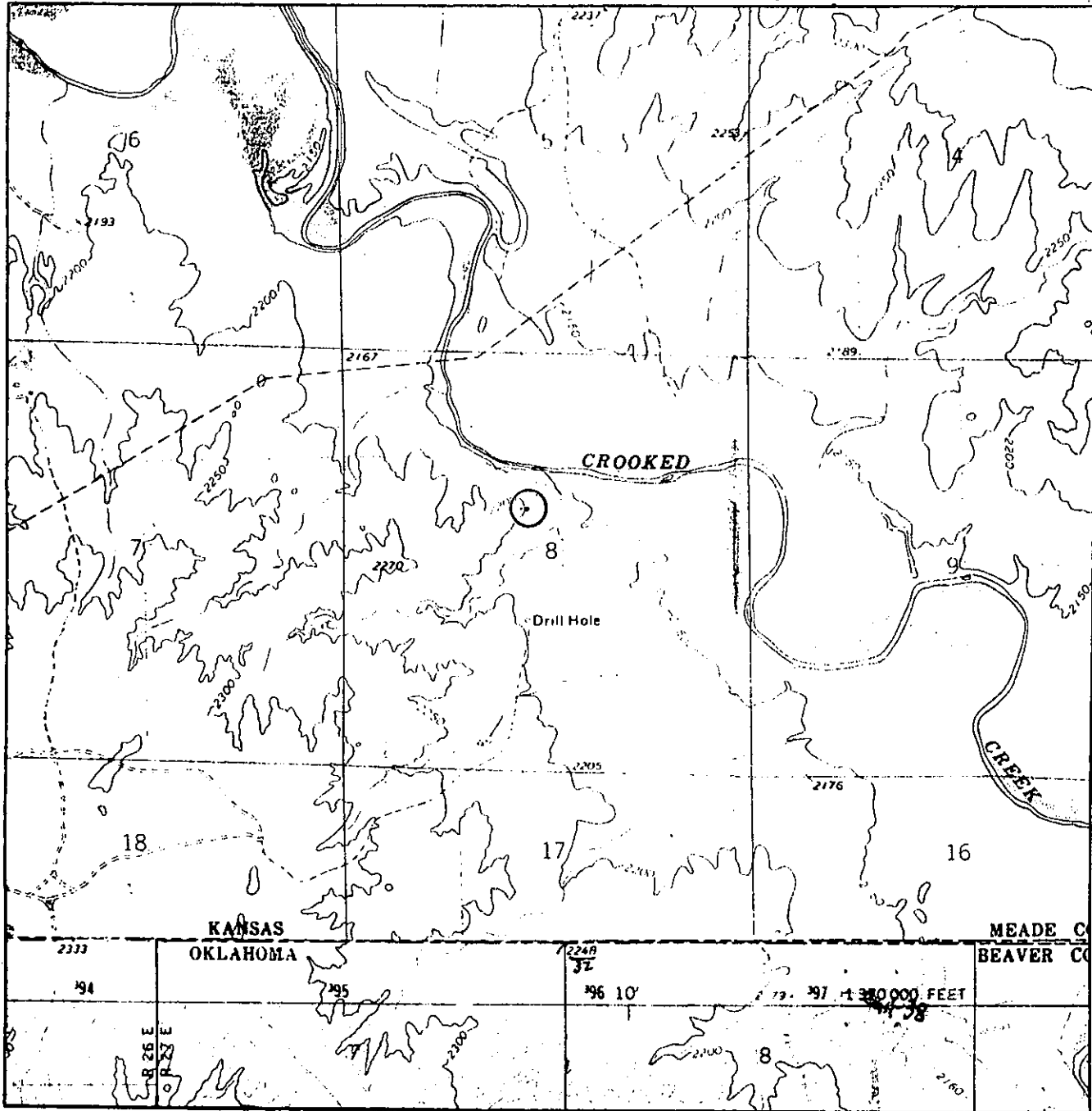
# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

urveying and Mapping for the Energy Industr

6709 North Classen Blvd. Oklahoma City, OK 73116 www.topographic.com

Telephone Numbers: Local (405) 843-4847 Toll Free (800) 654-3219

## LOCATION & ELEVATION VERIFICATION MAP



Sec. 8 Twp. 35S Rng. 26W

County MEADE State OK

Operator SHO-BAR ENERGY, INC.

Description 1980' FNL - 2310' FWL

Lease SUTHERLAND #2-8

Elevation 2194' Gr. at Stake

U.S.G.S. Topographic  
Quadrangle Map PROFITT LAKE SW

Above Background Data from  
U.S.G.S. Topographic Map -  
Scale: 1" = 2000'

Contour Interval <sup>10'</sup> **CONFIDENTIAL**

This location has been very carefully staked on the ground according to the best official survey records, maps and photographs available to us, but its accuracy is not guaranteed. When elevation is shown hereon it is the ground elevation of the location stake.  
Review this plat and inform us immediately of any possible discrepancy.

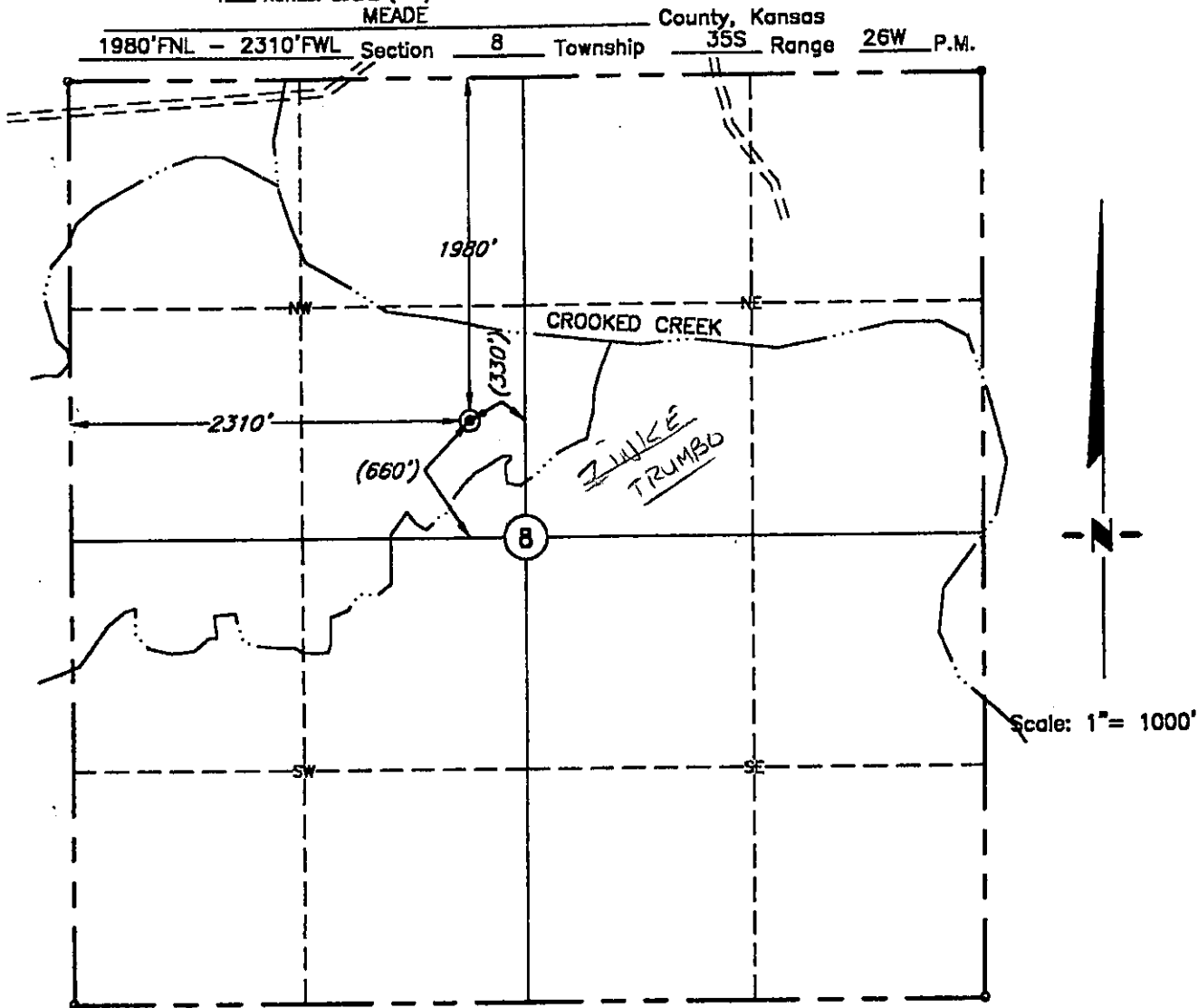
**TOPOGRAPHIC**

SURVEYING • MAPPING • GIS • GPS

LAND SURVEYORS

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
 871 ORTH CLASSEN BLVD. • OKLAHOMA CITY, OKLA. 731  
 TELEPHONES: LOCAL (405) 843-4847 • OUT OF STATE (800) 854-2219



This location has been very carefully staked on the ground according to the best official survey records, maps, and photographs available to us, but its accuracy is not guaranteed. Review this plot and notify us immediately of any possible discrepancy.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have not been measured.

Operator: SHO-BAR ENERGY, INC.  
 Lease Name: SUTHERLAND

Well No.: 2-8  
**ELEVATION:**  
2194' Gr. at Stake

Topography & Vegetation Loc. fell in sloped rough pasture

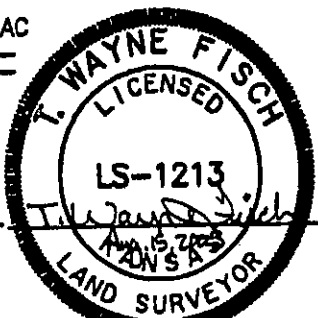
Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From North  
 Distance & Direction From Englewood, KS, go ±9.0 mi. West to trail road SW, then ±1.0 mi. South following trail road to the North line of Sec. 8-T35S-R26W.

**CONFIDENTIAL**

The following information was gathered using a GPS receiver  
 Accuracy ±2-3 Meters.

Invoice # 89503 Date Staked: Aug. 12, 2003 AC



**CERTIFICATE:**  
 I, T. Wayne Fisch a Registered Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

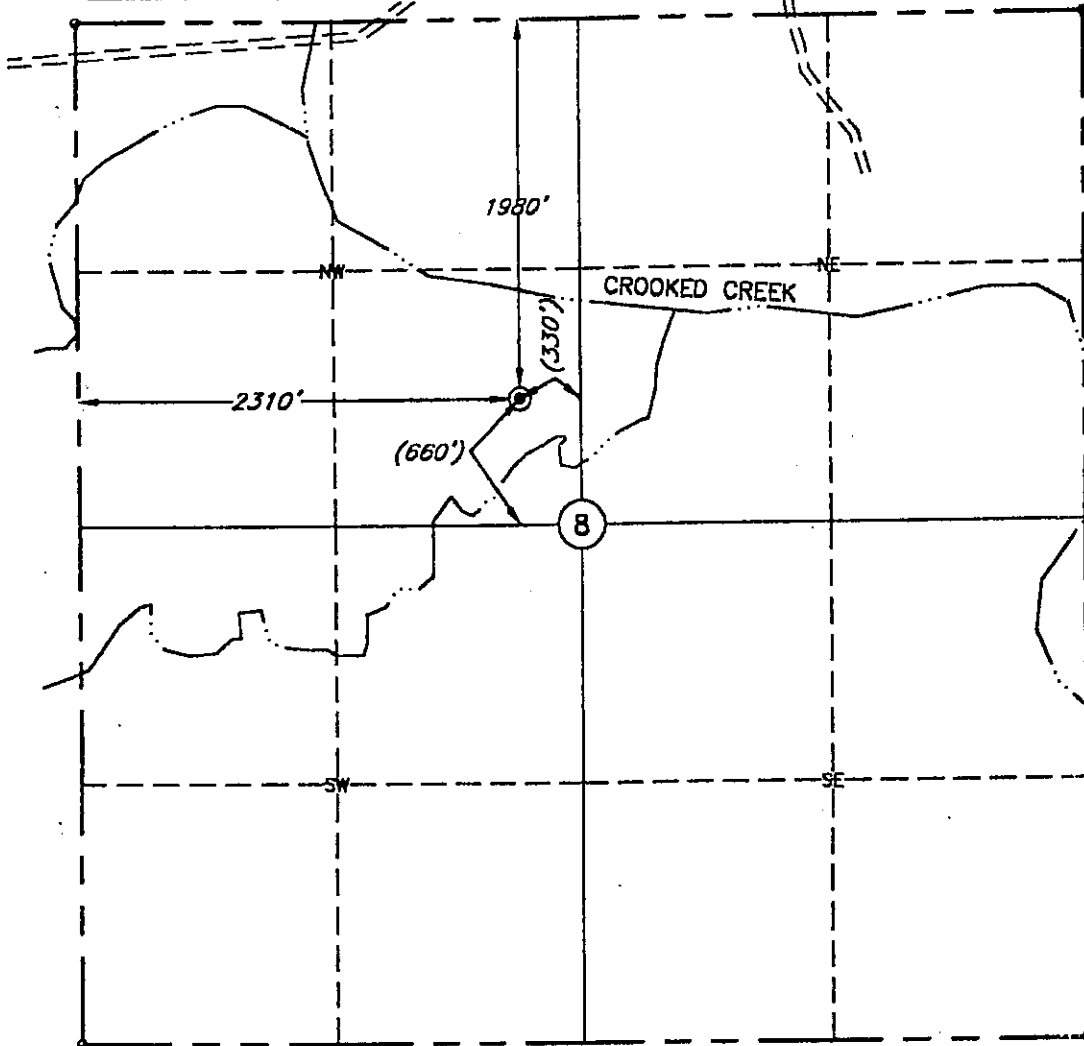
GPS  
 DATUM: NAD-27  
 LAT: 37°01'01.1"N  
 LONG: 100°10'16.7"W  
 STATE PLANE  
 COORDINATES:  
 ZONE: KS SOUTH  
 x- 1512022

Kansas Req. No. 1213

# TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

Surveying and Mapping for the Energy Industry  
 871 ORTH CLASSEN BLVD. • OKLAHOMA CITY, OKLA. 731  
 TELEPHONES: LOCAL (405) 843-4847 • OUT OF STATE (800) 854-2219

MEADE County, Kansas  
 1980' FNL - 2310' FWL Section 8 Township 35S Range 26W P.W.



comingled ● STG 4223  2-8 ○ Shobar	At .3650 Mor .3719 Ches .3804  Morj .3823 ♀ Mj .3896 ♀ Zinke + Trumbo * comingled
Shobar 2186 * 1.1 ♀ Pioneer Prod 7/63 LKc .2370 cke .3322 At .3521	L .2294

**CONFIDENTIAL**

RECEIVED  
 APR 15 2004  
 KCC WICHITA

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1998  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 7744  
 Name: SHO-BAR ENERGY INC.  
 Address: 346 E. HWY 160  
 City/State/Zip: HARPER KS. 67058  
 Purchaser: DUKE ENERGY(GAS) LINK ENERGY(OIL)  
 Operator Contact Person: HOWARD SHORT  
 Phone: (620) 896-2710  
 Contractor: Name: ALLEN DRILLING CO. RECEIVED  
 License: 5418  
 Wellsite Geologist: ARDEN RATZLAFF JAN 21 2004  
 Designate Type of Completion: KCC WICHITA  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIGW  Temp. Abd.  
 Gas  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 Entr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled Docket No. CO 030402  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Entr.?) Docket No. \_\_\_\_\_  

10/04/03	10/20/03	10/31/03
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 119.21117.00-00  
 County: MEADE  
 CE SE NW Sec. 8 Twp. 35 S. R. 26  East  West  
1980 feet from S N (circle one) Line of Section  
2310 feet from E W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE NW SW  
 Lease Name: SUTHERLAND Well #: 2-8  
 Field Name: CROOKED CREEK  
 Producing Formation: MORROW AND MISSISSIPPI  
 Elevation: Ground: 2094 Kelly Bushing: 2104  
 Total Depth: 6360 Plug Back Total Depth: 6030  
 Amount of Surface Pipe Set and Cemented at: 1545 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.

Drifting Fluid Management Plan  
 (Data must be collected from the Reserve Pit)  
 Chloride content 4000 ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used EVAPORATION  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

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: Howard Short  
 Title: PRESIDENT Date: 1/14/04  
 Subscribed and sworn to before me this 14 day of January  
20 04.  
 Notary Public: Deborah Hartson  
 Date Commission Expires: 9-30-07

KCC Office Use ONLY  
 Letter of Confidentiality Attached  
 If Denied, Yes  No Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

NOTARY PUBLIC, State of Kansas  
 DEBORAH HARTSON  
 My Comm. Exp. 9-30-07

Operator Name: **SHO-BAR ENERGY INC.** Lease Name: **SUTHERLAND** Well #: **2-8**  
 Sec. **6** Twp: **35** S. R. **26**  East  West County: **MEADE**

**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  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:  
**CDL / CNL / MEL / DIL**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
	Name	Top Datum
	HEEBNER	4464 2260
	LANSING	4549 2343
	CHEROKEE	5576 3372
	MORROW (UPPER)	5932 3728
	MORROW (LOWER)	5997 3793
	CHESTER	6026 3822
	ST GENEVIEVE	6502 4298

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	30"	20"	75#	35'	GROUT	4 1/2 YD	
SURFACE	12 1/4"	8 5/8"	24#	1545'	CLASS A	900	2% GEL 3%CC
PRODUCTION	7 5/8"	4 1/2"	11.6#	6302'	CLASS H	200	

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				

**CONFIDENTIAL**

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
4SPF	6206-14 6196-6200	1200 GAL 15% FE	
4SPF	6110-15 6084-86 6042-52 6036-40 CIBP 6180	200 GAL 15% FE	
4SPF	6010-12 CIBP 6030	500 GAL FE/NE	
4SPF	6002-06	7 1/2% HCL 2% KCL	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8"	5913		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Enhr. **01/02/04** Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. **3** Gas Mcf **400** Water Bbls. Gas-Oil Ratio Gravity

Disposition of Gas  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)* METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) **MORROW** **MISSISSIPPI** *Co 030402*





# KANSAS

CORPORATION COMMISSION

KATHLEEN SEBELIUS, GOVERNOR  
BRIAN J. MOLINE, CHAIR  
JOHN WINE, COMMISSIONER  
ROBERT E. KREHBIEL, COMMISSIONER

April 8, 2004

Howard Short  
Sho-Bar Energy Inc.  
346 HWY 160  
Harper, KS 67058

**RE: Commingling Application-KCC Form ACO-4  
Sutherland #2-8, SE SE NW, Sec. 8, T.35S, R.26W, Meade County, Kansas**

Dear Mr. Short,

The above application for commingling is currently being technically reviewed. Three items that were found in the review to be needed to complete this application are listed below:

**ACO-4 Item 1.)** Map of the showing the subject well with location of other wells on the lease and location of offsetting wells and operator names.

**ACO-4 Item 3.)** A wireline log is needed (see item 4 on ACO-4 form). To meet this requirement you may submit a photocopy of the zones to be commingled.

**ACO-4 Item 6.)** An Affidavit is needed containing a certificate showing service of the copy of the application to offset operators. The affidavit must be notarized showing the names of offset operators. If there are no offset operators please state that on a notarized affidavit. Please find enclosed a sample copy of an affidavit for your reference.

If there are any questions please contact me at 316-337-6223.

Thank you,



Robert Petersen  
Geologist/Production

**OUR COPY**

TYPE TEST:  Initial  Annual  Special TEST DATE: 01/05/2004

COMPANY: SHO-BAR Energy, Inc. LEASE: SUTHERLAND WELL NO.: 2-8

COUNTY: MEADE LOCATION: CE/SE/NW SECTION: 8 TWP: 35S RNG: 26W ACRES: 2-8

FIELD: CROOKED CREEK RESERVOIR: MISS./MORROW PIPELINE CONNECTION: DUKE ENERGY CORP.

COMPLETION DATE: 10-31-03 PLUG BACK DEPTH: 6030 Packer Set At: NONE

CASING SIZE: 4.500 WT. 11.600 ID 6302 SET AT 6002 PERF. 6200 TO

TUBING SIZE: 2.375 WT. 4.700 ID 1.995 SET AT 5913 PERF. TO

TYPE COMPLETION (Describe): CO-MINGLED TYPE FLUID PRODUCTION

PRODUCING THRU (Annulus/Tubing): TUBING RESERVOIR TEMPERATURE F: 14.4 psia BAR PRESS - Pa

GAS GRAVITY - Gg: .731 % CARBON DIOXIDE % NITROGEN API GRAVITY OF LIQUID

VERTICAL DEPTH (H): 6101 TYPE METER CONN.: FLANGE METER RUN SIZE: 3"

REMARKS: RECEIVED MAR 11 2004 KCC WICHITA

OBSERVED SURFACE DATA

RATE NO.	ORIFICE SIZE in.	(METER) PRESSURE psig	DIFF. (h <sub>w</sub> ) (h <sub>t</sub> )	FLOWING TEMP. t.	WELLHEAD TEMP. t.	CASING WELLHEAD PRESS.		TUBING WELLHEAD PRESS.		DURATION HOURS	LIQUID PROD. Bbls.
						psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>o</sub> ) psia	psig	(P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>o</sub> ) psia		
SHUT-IN											
1.	1.250	82.00	19.00	37		1540	1554	1530	1544	72.00	
2.	1.250	82.70	58.00	47		1475	1489	1445	1459	1.00	
3.	1.250	84.00	98.00	39		1370	1384	1340	1364	1.00	
4.	1.250	87.00	120.00	40		1240	1254	1220	1234	1.00	
						1140	1154	1120	1134	1.00	

FLOW STREAM ATTRIBUTES

RATE NO.	COEFFICIENT (F <sub>b</sub> ) Modd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW Q Modd	GOR	G <sub>m</sub>
1.	7.770	96.4	42.80	1.1696	1.0229	1.0131	403		.731
2.	7.770	97.1	75.05	1.1696	1.0127	1.0124	699		.731
3.	7.770	98.4	98.20	1.1696	1.0208	1.0132	923		.731
4.	7.770	101.4	110.31	1.1696	1.0198	1.0135	1036		.731

PRESSURE CALCULATION

RATE NO.	P <sub>t</sub> psia	P <sub>o</sub> psia	P <sub>w</sub> psia	(P <sub>o</sub> ) <sup>2</sup> Thousands	(P <sub>w</sub> ) <sup>2</sup> Thousands	PLOTING POINTS		% SHUT-IN 100 $\frac{P_w - P_o}{P_o - P_a}$
						(P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> Thousands	Q Modd	
1.	1459.4	1554.4	1489.4	2416.2	2218.3	197.8	403.0	95.8
2.	1354.4	1554.4	1384.4	2416.2	1916.8	499.6	699.2	89.0
3.	1234.4	1554.4	1254.4	2416.2	1573.5	842.6	923.1	80.5
4.	1134.4	1554.4	1154.4	2416.2	1332.6	1083.5	1036.2	74.0

INDICATED WELLHEAD OPEN FLOW 1654 Modd @ 14.65 psia "n" = 0.560

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated herein and that said report is true and correct. Executed this the 5th day of January, 2004.

Witness (if any)  
For Commission

**CONFIDENTIAL**

Hosco Testing & Measurement  
For Company  
Checked by



DUAL  
INDUCTION  
LOG

RECEIVED  
APR 15 2004  
KCC WICHITA

Company Sho-Bar Energy, Inc.  
Well Sutherland #2-8  
Field Crooked Creek  
County Meade  
State Kansas

Company Sho-Bar Energy, Inc.  
Well Sutherland #2-8  
Field Crooked Creek  
County Meade State Kansas

Location

~~XXXXXXXXXXXXXXXXXXXX~~  
CE/2 SE/4 N/W/4  
Sec. 08, Twp. 35S, Rge. 26W

Other Services  
CDL / CNL  
MEL

**CONFIDENTIAL**

