

ORIGINAL

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

API NO. 15-113-21276-0100
County McPherson
SE -SW-SE-NW Sec. 19 Twp. 20S Rge. 5W X W
2540' Feet from S/N (circle one) Line of
1830' Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Barnhart Well # #1
Field Name Welch-Bornholdt
Producing Formation N/A
Elevation: Ground 1541' KB 1554'
Total Depth 5215' MD PBD 4850'
Amount of Surface Pipe Set and Cemented at 221.53' Feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____'
feet depth to _____ w/ _____' sx cmt.

RECEIVED
MAY 24 2000
KANSAS CORPORATION COMMISSION
CONSERVATION DIVISION
WICHITA, KS

Operator: License # 31593
Section _____
Name: Westport Oil and Gas Company
Address 410 Seventeenth Street #2300
City/State/Zip Denver, CO 80202
Purchaser: _____
Operator Contact Person: Harold Neal, Senior Engineer
Phone: (303) 573-5404
Contractor Name: Sterling Drilling Company
License: 5142

Wellsite Geologist: Tim Houman
Designate type of completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
12/22/99 1/23/00 Pending P&A
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 16,000 ppm Fluid volume 800 bbls
Dewatering method used hauled off
Location of fluid disposal if hauled offsite:
Operator Name Brackeen Line Cleaning
Lease Name Praeger License No. 9952
NE Quarter Sec. 27 Twp. 17 S Rng 11 E/W
County McPherson Docket No. D20704

AH-1-Dlg-2/1/09

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 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 Harold Neal Harold Neal
Title Senior Engineer Date 5/22/00
Subscribed and sworn to before me this 22nd day of May
Notary Public Carolyn A. Doss
Date Commission Expires 12/13/01

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Westport Oil and Gas Company Lease Name Barnhart Well # 1
 East County McPherson
 Sec. 19 Twp. 20S Rge 5W
 West

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.)	Yes	<input checked="" type="radio"/>	No	Log	Formation (Top), Depth and Datums	Sample
Samples Sent to Geological Survey	<input checked="" type="radio"/>	Yes	No	Name	Top	Datum
Cores Taken	Yes	<input checked="" type="radio"/>	No	Heebner	2498'	-944
Electric Log Run (Submit Copy.)	Yes	<input checked="" type="radio"/>	No	Toronto	2516'	-962'
Gamma Ray				Douglas	2524'	-970'
List All E.Logs Run:				Brn Lime	2723'	-1169'
				Lansing	2742'	-1188'
				BKC (MD)	3128'	-1574'
				BKC (TUD)	3115'	-1561
				Cherokee (MD)	3240'	-1686'
				Cherokee (TVD)	3197'	-1643'
				Mississippi (MD)	3470'	-1916'
				Mississippi (TVD)	3297'	-1743'
				Measured Depth	5125'	-3571'

CASING RECORD

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		Type of Cement	# Sacks Used	Type and Percent Additives
				Depth	KB			
Surface Csg.	14-3/4"	10-3/4"	32.75#	221.53'	KB	60/40 Poz	200	2% Gel/3% CC
Production Csg.	9-5/8"	7"	23#	3561'	KB	Premium +	275	2% CC, 5% Halad 322, .1% SWCA, .25% D-air mixed @ 14.8#/gal.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	Top Bottom			
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

PERFORATION RECORD - Bridge Plugs Set/Type
 Shots Per Foot Specify Footage of Each Interval Perforated
 Acid, Fracture, Shot, Cement Squeeze Record
 (Amount and Kind of Material Used) Depth

Open Hole 3561'-5215'

TUBING RECORD	Size	Set At	Packer At	Liner Run	Yes	No		
Date of First, Resumed Production, SWD or Inj.	Producing Method	Flowing	Pumping	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
Disposition of Gas:	METHOD OF COMPLETION			Production Interval				
Vented	Sold	Used on Lease	Open Hole	Perf.	Dually Comp.	Commingled		
(If vented, submit ACO-18.)		Other (Specify) _____						

SMITH SERVICES - DIRECTIONAL GROUP

15-113-21276-Sub-00

Survey Calculation Sheet

Company Westport Oil & Gas Company, Inc.

Well Barnhart 22 - 19H

Field Bornholdt

Rig Sterling #4

DDS. Hout / Musgrave

Mag. Decl. 6.03

Target TVD 3304

Target Az. 337.31

Tgt. Coord. 373.6 -156.2

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 25 2000
CONSERVATION DIVISION
WICHITA, KS

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	E/W	DLS	B/D.	BHA
Tie - In	1	2841	0.20	356.20		2840.99	4.69	4.95 N	0.33 W			1
8-Jan	2	2873	0.7	18.3	32	2872.99	4.89	5.19 N	0.27 W	1.63	1.56	
	3	2904	1.8	341.2	31	2903.98	5.52	5.83 N	0.37 W	4.23	3.55	
	4	2936	5.4	336.5	32	2935.91	7.53	7.69 N	1.13 W	11.28	11.25	
	5	2966	9.9	336.3	30	2965.64	11.52	11.35 N	2.73 W	15.00	15.00	
	6	2997	14.8	336.0	31	2995.91	18.15	17.41 N	5.41 W	15.81	15.81	
	7	3028	18.8	337.0	31	3025.58	27.11	25.63 N	8.98 W	12.94	12.90	
	8	3059	23.6	338.0	31	3054.48	38.31	35.98 N	13.25 W	15.53	15.48	
	9	3089	28.1	338.3	30	3081.47	51.39	48.12 N	18.12 W	15.01	15.00	
	10	3120	33.3	337.0	31	3108.11	67.21	62.75 N	24.14 W	16.91	16.77	
	11	3152	38.4	334.7	32	3134.04	85.93	79.83 N	31.83 W	16.48	15.94	
	12	3183	42.6	336.5	31	3157.61	106.05	98.17 N	40.13 W	14.06	13.55	
	13	3214	46.8	336.7	31	3179.64	127.85	118.18 N	48.78 W	13.56	13.55	
	14	3245	50.7	336.7	31	3200.08	151.15	139.58 N	58.00 W	12.58	12.58	
	15	3276	55.1	335.4	31	3218.77	175.86	162.16 N	68.03 W	14.58	14.19	
	16	3307	59.1	338.1	31	3235.61	201.87	186.08 N	78.29 W	14.83	12.90	
	17	3338	62.6	335.4	31	3250.71	228.94	210.94 N	88.98 W	13.61	11.29	
	18	3370	66.2	335.4	32	3264.54	257.78	237.17 N	100.99 W	11.25	11.25	
	19	3400	70.2	335.8	30	3275.67	285.61	262.54 N	112.49 W	13.39	13.33	
	20	3432	73.9	336.5	32	3285.53	316.04	290.38 N	124.79 W	11.75	11.56	
	21	3462	77.4	336.0	30	3292.97	345.09	316.97 N	136.50 W	11.78	11.67	
	22	3494	81.5	336.7	32	3298.83	376.54	345.78 N	149.11 W	12.99	12.81	
	23	3525	85.5	337.0	31	3302.34	407.33	374.10 N	161.21 W	12.94	12.90	
16-Jan	24	3553	91.3	337.0	28	3303.12	435.31	399.85 N	172.14 W	20.71	20.71	2
17-Jan	25	3584	93.0	342.0	31	3301.95	466.25	428.86 N	182.98 W	17.02	5.48	3
	26	3615	92.0	340.9	31	3300.60	497.14	458.22 N	192.84 W	4.79	-3.23	4
	27	3646	89.0	339.4	31	3300.33	528.10	487.37 N	203.36 W	10.82	-9.68	
	28	3678	88.5	338.4	32	3301.03	560.08	517.22 N	214.88 W	3.49	-1.56	
	29	3709	89.1	339.0	31	3301.68	591.06	546.09 N	226.13 W	2.74	1.94	
18-Jan	30	3741	89.3	338.5	32	3302.12	623.05	575.92 N	237.73 W	1.68	0.63	
	31	3773	87.9	337.5	32	3302.91	655.03	605.58 N	249.71 W	5.38	-4.37	
	32	3805	88.7	337.6	32	3303.86	687.02	635.14 N	261.93 W	2.52	2.50	
	33	3837	89.5	337.4	32	3304.36	719.01	664.70 N	274.17 W	2.58	2.50	
	34	3868	89.3	336.7	31	3304.68	750.01	693.24 N	286.26 W	2.35	-0.65	
	35	3899	89.2	338.7	31	3305.09	781.01	721.92 N	298.02 W	6.46	-0.32	
	36	3930	89.3	334.7	31	3305.49	811.99	750.38 N	310.28 W	12.91	-0.32	
	37	3962	89.6	340.3	32	3305.80	843.98	779.93 N	322.51 W	17.52	-0.94	
	38	3993	88.7	335.1	31	3306.26	874.96	808.60 N	334.26 W	17.02	-2.90	
19-Jan	39	4025	88.3	335.1	32	3307.10	906.93	837.62 N	347.73 W	1.25	-1.25	
	40	4056	87.5	334.3	31	3308.24	937.87	865.62 N	360.97 W	3.65	-2.58	
	41	4088	88.2	332.7	32	3309.44	969.78	894.24 N	375.24 W	5.45	2.19	
	42	4119	88.2	335.2	31	3310.41	1000.71	922.08 N	388.84 W	8.06		
	43	4151	88.7	335.7	32	3311.28	1032.68	951.17 N	402.13 W	2.21	1.56	
	44	4183	90.1	334.5	32	3311.61	1064.65	980.20 N	415.61 W	5.76	4.37	
20-Jan	45	4214	90.5	334.9	31	3311.45	1095.62	1008.22 N	428.85 W	1.82	1.29	
	46	4246	91.1	336.0	32	3311.00	1127.60	1037.32 N	442.15 W	3.92	1.87	
	47	4277	92.0	335.3	31	3310.16	1158.57	1065.56 N	454.92 W	3.68	2.90	
	48	4308	92.0	335.9	31	3309.08	1189.54	1093.77 N	467.72 W	1.93		
	49	4339	90.6	336.7	31	3308.38	1220.53	1122.15 N	480.18 W	5.20	-4.52	

Survey Calculation Sheet

Company Westport Oil & Gas Company, Inc.

Well Barnhart 22 - 19H

Field Bornholdt

Rig Sterling #4

DDS Hout / Musgrave

Mag. Decl. 6.03

Target TVD 3304

Target Az. 337.31

Tgt. Coord. 373.6 -156.2

Date	No.	DEPTH	INC.	AZM	C.L.	T.V.D.	V.S.	N/S	EW	DLS	B/D.	BHA
	50	4371	91.2	336.7	32	3307.88	1252.52	1151.53 N	492.83 W	1.87	1.88	
	51	4402	91.9	335.0	31	3307.04	1283.50	1179.81 N	505.51 W	5.93	2.26	
	52	4433	90.9	335.7	31	3306.28	1314.47	1207.98 N	518.44 W	3.94	-3.23	
	53	4465	91.4	333.6	32	3305.64	1346.43	1236.89 N	532.13 W	6.74	1.56	
	54	4496	89.6	332.4	31	3305.37	1377.33	1264.51 N	546.20 W	6.98	-5.81	
	55	4529	87.8	332.8	33	3306.12	1410.21	1293.79 N	561.39 W	5.59	-5.45	
	56	4561	87.7	331.4	32	3307.37	1442.06	1322.05 N	576.35 W	4.38	-0.31	
	57	4592	88.4	331.8	31	3308.43	1472.88	1349.31 N	591.08 W	2.60	2.26	
	58	4624	87.9	334.4	32	3309.46	1504.78	1377.83 N	605.55 W	8.27	-1.56	
	59	4656	89.2	333.5	32	3310.27	1536.71	1406.56 N	619.60 W	4.94	4.06	
21-Jan	60	4688	91.2	334.5	32	3310.16	1568.65	1435.32 N	633.62 W	6.99	6.25	
	61	4720	91.1	335.1	32	3309.52	1600.62	1464.27 N	647.25 W	1.90	-0.31	
	62	4752	89.2	333.6	32	3309.43	1632.57	1493.12 N	661.10 W	7.56	-5.94	
	63	4783	89.5	334.7	31	3309.78	1663.52	1521.01 N	674.61 W	3.68	0.97	5
	64	4815	88.8	334.5	32	3310.26	1695.48	1549.92 N	688.34 W	2.28	-2.19	
	65	4847	89.1	334.5	32	3310.84	1727.44	1578.79 N	702.11 W	0.94	0.94	
	67	4878	89.7	334.4	31	3311.17	1758.40	1606.76 N	715.48 W	1.96	1.94	
	68	4910	90.6	333.9	32	3311.09	1790.35	1635.56 N	729.43 W	3.22	2.81	
	70	4941	91.2	333.0	31	3310.60	1821.27	1663.29 N	743.28 W	3.49	1.94	
	71	4972	92.0	333.2	31	3309.73	1852.18	1690.92 N	757.30 W	2.66	2.58	
22-Jan	72	5004	92.5	335.8	32	3308.48	1884.11	1719.78 N	771.07 W	8.27	1.56	
	73	5036	91.8	332.0	32	3307.28	1916.03	1748.49 N	785.13 W	12.07	-2.19	
	74	5068	92.0	331.5	32	3306.21	1947.86	1776.66 N	800.27 W	1.68	0.63	
	proj	5121	89.9	336.0	53	3305.34	2000.73	1824.17 N	823.69 W	9.37	-3.96	

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KANSAS CORPORATION COMMISSION

MAY 24 2000

CONSERVATION DIVISION
WICHITA, KS

3.03

Smith Services - Directional Group

Planning Report

15-113-21276-01-00

Company: WESTPORT OIL & GAS CO. INC. Field: McPherson County, Kansas Site: Nelson Alt Well: 41-19H Wellpath: OH Original hole	Date: 10/21/1999 Co-ordinate(NE) Reference: Site: Nelson Alt, True North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Site (0.0E,0.0N,337.3Azi) Plan: Plan #1	Time: 13:11:48 Site: Nelson Alt, True North Site: SITE 0.0 above Mean Sea Level Site: Site (0.0E,0.0N,337.3Azi) Plan #1	Page: 1
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Field: McPherson County, Kansas Map System: US State Plane Coordinate System 1927 Ellipsoid: Clarke - 1866 Sys Datum: Mean Sea Level	Map Zone: Kansas, Southern Zone North Reference: True Geomagnetic Model: Igrf95
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Site: Nelson Alt			
Site Position:	Northing:	ft	Latitude:
From: Lease Line	Easting:	ft	Longitude:
Position Uncertainty: 0.0 ft			Magnetic Declination: 0.00 deg
Water Depth: 0.0 ft			Grid Convergence: 0.00 deg

Well: 41-19H					
Well Position: +N/-S	0.0 ft	Northing:	0.00 ft	Latitude:	36 27 58.061 N
From Slot: +E/-W	0.0 ft	Easting :	0.00 ft	Longitude:	105 18 19.588 W
Position Uncertainty:	0.0 ft				

Wellpath: OH Original hole Vertical Section: +N/-S 0.0 ft From: Site +E/-W 0.0 ft Measured Depth Reference: SITE 0.0 ft	Drilled From: Surface Tie-on Depth: ft V.Section Direction: 337.31 deg Above System Datum: Mean Sea Level
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Plan: Plan #1 Principal: Yes	Date Composed: 10/21/1999 Version: 1 Locked: No
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Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2900.0	0.00	337.31	2900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2915.0	0.00	337.31	2915.0	0.0	0.0	0.0	0.00	0.00	0.00	
2925.0	1.40	337.31	2925.0	0.1	0.0	0.1	13.97	13.97	0.00	
2950.0	4.89	337.31	2950.0	1.4	-0.6	1.5	13.97	13.97	0.00	
2975.0	8.38	337.31	2974.8	4.0	-1.7	4.4	13.97	13.97	0.00	
3000.0	11.88	337.31	2999.4	8.1	-3.4	8.8	13.97	13.97	0.00	
3025.0	15.37	337.31	3023.7	13.5	-5.7	14.7	13.97	13.97	0.00	
3050.0	18.87	337.31	3047.6	20.3	-8.5	22.0	13.97	13.97	0.00	
3075.0	22.36	337.31	3071.0	28.4	-11.9	30.8	13.97	13.97	0.00	
3100.0	25.85	337.31	3093.8	37.9	-15.8	41.0	13.97	13.97	0.00	
3125.0	29.35	337.31	3115.9	48.5	-20.3	52.6	13.97	13.97	0.00	
3150.0	32.84	337.31	3137.3	60.5	-25.3	65.5	13.97	13.97	0.00	
3175.0	36.33	337.31	3157.9	73.5	-30.7	79.7	13.97	13.97	0.00	
3200.0	39.83	337.31	3177.6	87.8	-36.7	95.1	13.97	13.97	0.00	
3225.0	43.32	337.31	3196.3	103.1	-43.1	111.7	13.97	13.97	0.00	
3250.0	46.81	337.31	3213.9	119.4	-49.9	129.4	13.97	13.97	0.00	
3275.0	50.31	337.31	3230.5	136.7	-57.1	148.2	13.97	13.97	0.00	
3300.0	53.80	337.31	3245.9	154.9	-64.7	167.9	13.97	13.97	0.00	
3325.0	57.30	337.31	3260.0	173.9	-72.7	188.5	13.97	13.97	0.00	
3350.0	60.79	337.31	3272.9	193.7	-81.0	209.9	13.97	13.97	0.00	
3375.0	64.28	337.31	3284.4	214.1	-89.5	232.1	13.97	13.97	0.00	
3400.0	67.78	337.31	3294.5	235.2	-98.3	254.9	13.97	13.97	0.00	
3425.0	71.27	337.31	3303.3	256.8	-107.4	278.3	13.97	13.97	0.00	
3450.0	74.76	337.31	3310.6	278.9	-116.6	302.3	13.97	13.97	0.00	
3475.0	78.26	337.31	3316.4	301.3	-126.0	326.6	13.97	13.97	0.00	
3500.0	81.75	337.31	3320.8	324.0	-135.4	351.2	13.97	13.97	0.00	
3525.0	85.24	337.31	3323.6	346.9	-145.0	376.0	13.97	13.97	0.00	

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 KANSAS CORPORATION COMMISSION
 MAY 24 2000
 CONSERVATION DIVISION
 WICHITA, KS

Smith Services - Directional Group

Planning Report

15-113-21276-06-00

Company: WESTPORT OIL & GAS CO., INC.	Date: 10/21/1999	Time: 13:11:48	Page: 2
Field: McPherson County, Kansas	Co-ordinate(NE) Reference:	Site: Nelson Alt, True North	
Site: Nelson Alt	Vertical (TVD) Reference:	SITE 0.0 above Mean Sea Level	
Well: 41-19H	Section (VS) Reference:	Site (0.0E,0.0N,337.3Azi)	
Wellpath: OH Original hole	Plan:	Plan #1	

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3550.0	88.74	337.31	3324.9	370.0	-154.7	401.0	13.97	13.97	0.00	
3559.0	90.00	337.31	3325.0	378.3	-158.1	410.0	13.97	13.97	0.00	
3600.0	90.00	337.31	3325.0	416.1	-173.9	451.0	0.00	0.00	0.00	
3700.0	90.00	337.31	3325.0	508.3	-212.5	551.0	0.00	0.00	0.00	
3800.0	90.00	337.31	3325.0	600.6	-251.1	651.0	0.00	0.00	0.00	
3900.0	90.00	337.31	3325.0	692.9	-289.6	751.0	0.00	0.00	0.00	
4000.0	90.00	337.31	3325.0	785.1	-328.2	851.0	0.00	0.00	0.00	
4100.0	90.00	337.31	3325.0	877.4	-366.8	951.0	0.00	0.00	0.00	
4200.0	90.00	337.31	3325.0	969.7	-405.3	1051.0	0.00	0.00	0.00	
4300.0	90.00	337.31	3325.0	1061.9	-443.9	1151.0	0.00	0.00	0.00	
4400.0	90.00	337.31	3325.0	1154.2	-482.5	1251.0	0.00	0.00	0.00	
4471.3	90.00	337.31	3325.0	1220.0	-510.0	1322.3	0.00	0.00	0.00	
4500.0	90.00	337.31	3325.0	1246.4	-521.1	1351.0	0.00	0.00	0.00	
4600.0	90.00	337.31	3325.0	1338.7	-559.6	1451.0	0.00	0.00	0.00	
4700.0	90.00	337.31	3325.0	1431.0	-598.2	1551.0	0.00	0.00	0.00	
4800.0	90.00	337.31	3325.0	1523.2	-636.8	1651.0	0.00	0.00	0.00	
4900.0	90.00	337.31	3325.0	1615.5	-675.3	1751.0	0.00	0.00	0.00	
5000.0	90.00	337.31	3325.0	1707.8	-713.9	1851.0	0.00	0.00	0.00	
5100.0	90.00	337.31	3325.0	1800.0	-752.5	1951.0	0.00	0.00	0.00	
5200.0	90.00	337.31	3325.0	1892.3	-791.0	2051.0	0.00	0.00	0.00	
5300.0	90.00	337.31	3325.0	1984.6	-829.6	2151.0	0.00	0.00	0.00	
5400.0	90.00	337.31	3325.0	2076.8	-868.2	2251.0	0.00	0.00	0.00	
5500.0	90.00	337.31	3325.0	2169.1	-906.7	2351.0	0.00	0.00	0.00	
5544.4	90.00	337.31	3325.0	2210.0	-923.9	2395.3	0.00	0.00	0.00	

Targets

Name	Dip deg	Direction deg	TVD ft	+N/-S ft	+E/-W ft	Map Unit	Map Unit	<--- Latitude --->		<--- Longitude --->					
						Northing ft	Easting ft	Deg	Min	Sec	Deg	Min	Sec		
Midpoint			3325.0	1220.0	-510.0	1220.00	-510.00	36	28	9.722	N	105	18	26.902	W

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KANSAS CORPORATION COMMISSION

MAY 24 2000

CONSERVATION DIVISION
WICHITA, KS

Sterling Drilling Company, Rig #4

Box 1006, Pratt, Kansas 67124-1006
Office Phone (316) 672-9508, Fax 672-9509

SAMPLE LOG

Barnhart 22-19H (Horizontal)

LOCATION: 2540' FNL & 1830' FWL Section 19 T 20s R 5w
API#: 15-113-21276-0100 McPherson County, Kansas

OWNER: Westport Oil and Gas Company, Inc. **COMMENCED:** 12/22/99
CONTRACTOR: Sterling Drilling Company, Rig #4 **COMPLETED:** 01/23/00

TOTAL DEPTH: **DRILLER** 5125' MD FEET **Ground Elevation:** 1541
LOGGER Not logged FEET **Kelly Bushing Elevation:** 1554

LOG

0 - 31 FEET (TVD) Top Soil
31 - 225 FEET (TVD) Redbeds
225 - 2900 FEET (TVD) Shale/Salt/Anhydrites/Limestone (Kick off point to start the curve)
2900 - 3570 FEET (MD) Limestone/Shale/Chert (Curve segment to Horizontal in the Mississippian Chert)
3570 - 5125 FEET (MD) Mississippian Chert (Open hole - all horizontal)

CASING RECORDS

Surface Casing Data:

Spud at 1:00 pm on 12-22-99. Drilled 14-3/4" hole to 225'. Ran 5 joints of New 32.75# 10-3/4" surface casing. Tallied 204.53' set at 221.53 KB. Cemented with 200 sacks 60/40 Poz, 2% Gel, 3% CC. Plug down at 8:15 pm on 12-22-99 by Acid Services. Good returns in cellar. Ticket # 02297.

Production Casing Data:

Drilled vertical 9-7/8" hole from 225' to 2900'. Then 9-7/8" hole from 2900' to 3750' (Curve). Ran 77 joints New 7" 23# K-55 casing. Casing set at 3561' KB. Flush with 500 gal mud flush. Cemented with 275 sacks of premium plus cement containing 2% CC, .5% Halad 322, .1% SWCA, .25% D-air mixed at 14.8#/gallon. Displaced with 137.4 barrels. Plug down at 9:30 pm on 1-13-00 by Halliburton. Float held.

VERTICAL DEVIATION SURVEYS

1/2 degree(s) at 200 feet
1/4 degree(s) at 600 feet
1/4 degree(s) at 991 feet
1/2 degree(s) at 1400 feet
7/8 degree(s) at 1800 feet
3/4 degree(s) at 2200 feet
1/2 degree(s) at 2600 feet
1/2 degree(s) at 2900 feet

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WICHITA, KS