

15-095-21774

TRILOBITE TESTING L.L.C.

2-30s-9w

T. 30, not
20 as
printed.

OPERATOR : McCoy Petroleum, Corp.
WELL NAME: Woodard S #1-2
LOCATION : 2-20s-9w Kingman co KS
INTERVAL : 2722.00 To 2750.00 ft

DATE 11/20/200

KB 1614.00 ft TICKET NO: 13254 DST #1
GR 1609.00 ft FORMATION: Burlingame
TD 2750.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 2130 to 2200 hr
SI 30 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 2200 to 2230 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2230 to 2300 hr
FS 30 Depth(ft)	2747.0	2747.0	2728.0	0.0	0.0	FS Fr. 2300 to 2330 hr

	Field	1	2	3	4	
A. Init Hydro	1353.0	0.0	1354.0	0.0	0.0	T STARTED 1812 hr
B. First Flow	53.0	0.0	31.0	0.0	0.0	T ON BOTM 2127 hr
B1. Final Flow	64.0	0.0	89.0	0.0	0.0	T OPEN 2130 hr
C. In Shut-in	0.0	0.0	903.0	0.0	0.0	T PULLED 2330 hr
D. Init Flow	0.0	0.0	98.0	0.0	0.0	T OUT 0100 hr
E. Final Flow	0.0	0.0	138.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	881.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1375.0	0.0	1304.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 52000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 262.07 ft
						D.P. Length 2470.03 ft

RECOVERY

Tot Fluid 280.00 ft of 262.00 ft in DC and 18.00 ft in DP
0.00 ft of Trace of gas in pipe
280.00 ft of Very slightly gas cut muddy water
0.00 ft of 5% gas 65% water 30% MUD
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 35000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow bottom of bucket in 50
seconds.

Initial Shut-In:

Bled down for 5 minutes. No blow back

Final Flow:

Strong blow built to 10".

Final Shut-In:

Bled down for 5 minutes. Built back
to weak surface blow back.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.50 lb/c
Vis.	32.00 S/L
W.L.	7.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	95.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Dave
Contr.	Pickrell
Rig #	1
Unit #	none
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Woodard S #1-2

LOCATION : 2-20s-9w Kingman co KS

TICKET No. 13254 D.S.T. No. 1 DATE 11/20/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 28

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands	Single	Total
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D.P. ANCHOR STND.Stands	Single	Total
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TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands4	Single 1	Total 262.07
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D.P. ABOVE TOOLS.Stands39 Single 1 Total 2470.30

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 2782

TOTAL DEPTH 2750

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

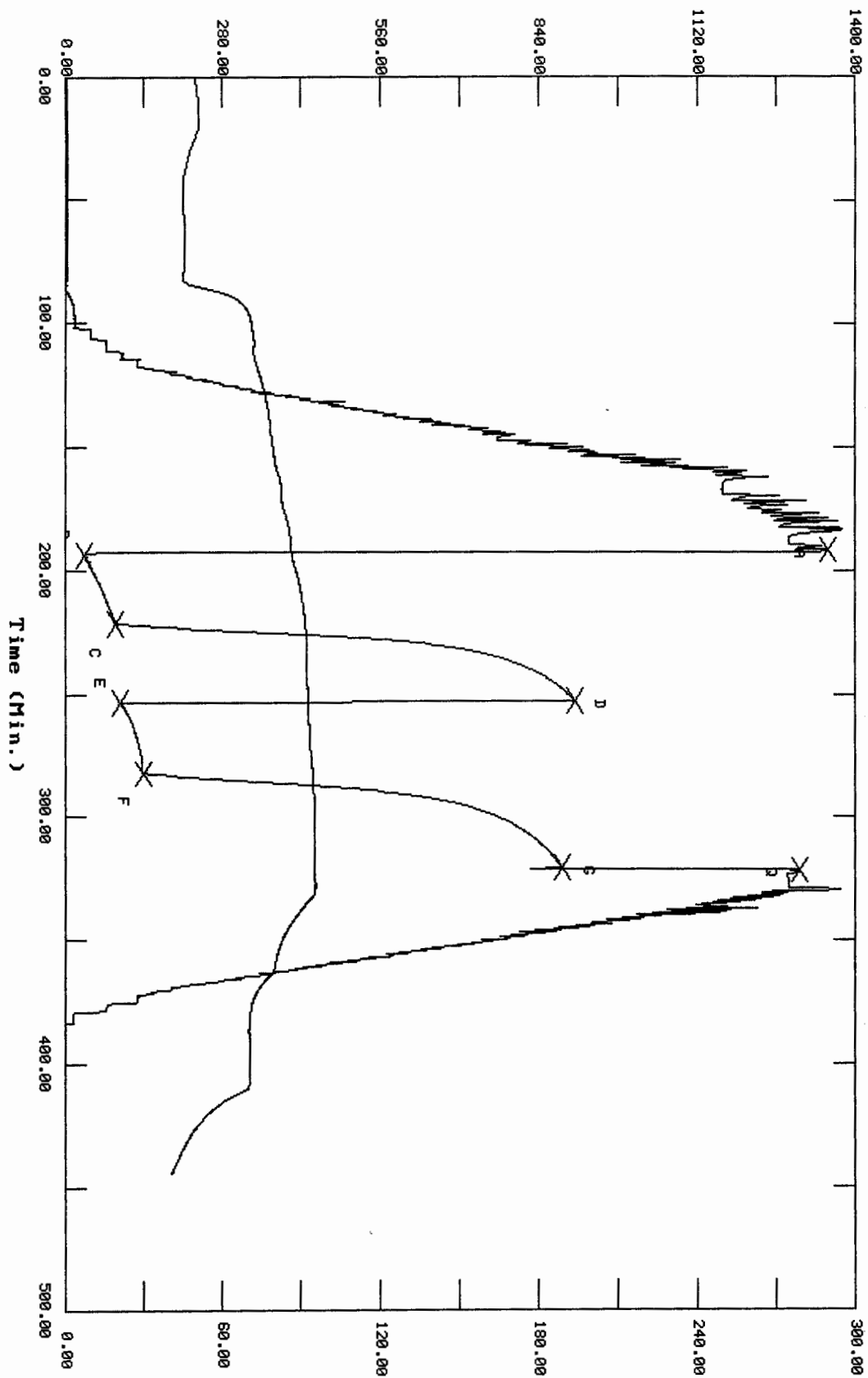
P.O. SUB Top of tool @	2702
C.O. SUB	2703
S.I. TOOL	2708
HMV	2713
JARS	
SAFETY JOINT	
PACKER	2717
PACKER	2722
DEPTH 2722	
1"to	2723
ANCHOR 22' of perms.to	2745
Alpine rec .@ 2728	
	2745
Ak-1 rec. @ 2747	
BULLNOSE 5'bullnose to	2750
T.D.	

Tk#13254 DST#1 Woodard S #1-2 McCoy Petroleum Corp.

TEST HISTORY

Flag Points
(Min.) P (PSig)

A:	0.00	1353.92
B:	0.00	31.80
C:	28.00	89.04
D:	31.00	903.14
E:	0.00	98.35
F:	28.67	138.14
G:	38.67	881.32
H:	0.00	1303.89

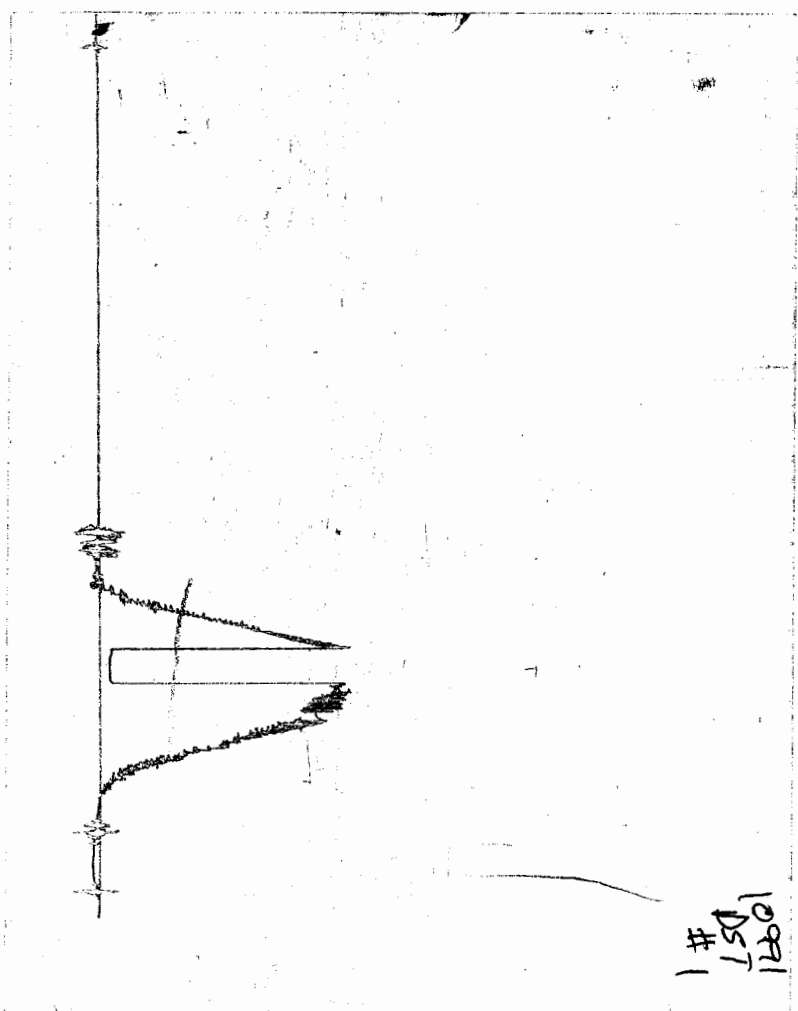


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13254

Test Ticket

Well Name & No.	Woodard 5' #1-2	Test No.	#1	Date	11/20/2000
Company	McCoy Pet. Corp. 4535	Zone Tested	Burlingame		
Address	Webb Rd. Suite 310 P.O. Box 780200 Wichita KS	Elevation	1614	KB	1609 GL
Co. Rep / Geo.	Dave Clothier	Cont.	Pickrell drilling #1	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	20S	Rge.	9W
		Co.	Kingman	State	KS
No. of Copies	5	Distribution Sheet (Y, N)		Turnkey (Y, N)	
		Evaluation (Y, N)			

Interval Tested	27.22 - 27.50	Initial Str Wt./Lbs.	52,000	Unseated Str Wt./Lbs.	54,000
Anchor Length	28'	Wt. Set Lbs.	2,000	Wt. Pulled Loose/Lbs.	56,000
Top Packer Depth	27.17'	Tool Weight	2100		
Bottom Packer Depth	27.22'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	27.50'	Wt. Pipe Run	N/A	Drill Collar Run	262.07
Mud Wt.	9.5 LCM 0 Vis. 32 WL 70	Drill Pipe Size	4 1/2 X H	Ft. Run	2470.93

Blow Description TF: Strong blow 6 o.b. in 50 sec.
IST: Bled down for 5 mins. No blow back.
EF: Strong blow built to 10"
FST: Bled down for 5 mins built back to weak surface blow

Recovery — Total Feet	GIP	Ft. in DC	262'	Ft. in DP	18'
Rec. 38'	Feet Of 156C MW	5 %gas	%oil	65%water	30%mud
Rec. trace	Feet Of Gas In pipe	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 96° °F Gravity °API D@ °F Corrected Gravity °API
 RW 14 @ 35° °F Chlorides 38,000 ppm Recovery Chlorides 25,000 ppm System

(A) Initial Hydrostatic Mud	AK-1 1353	Alpine 1354	PSI Recorder No.	2350	T-On Location	1730
(B) First Initial Flow Pressure	53	31	PSI (depth)	2728	T-Started	1812
(C) First Final Flow Pressure	64	89	PSI Recorder No.	10991	T-Open	2130
(D) Initial Shut-In Pressure	90.3	90.3	PSI (depth)	2747'	T-Pulled	2330
(E) Second Initial Flow Pressure	89	89	PSI Recorder No.		T-Out	0100
(F) Second Final Flow Pressure	138	138	PSI (depth)		T-Off Location	0130
(G) Final Shut-in Pressure	881	881	PSI Initial Opening	30	Test	✓ 650
(Q) Final Hydrostatic Mud	1375	1304	PSI Initial Shut-in	30	Jars	
			Final Flow	30	Safety Joint	
			Final Shut-in	30	Straddle	

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Approved By [Signature]

Our Representative Darren J. Burris

Extra Packer
 Elec. Rec. 150
 Mileage 36 36
 Other
 TOTAL PRICE \$ 836

TRILOBITE TESTING L.L.C.

OPERATOR : McCoy Petroleum, Corp.
WELL NAME: Woodard "S" #1-2
LOCATION : 2-20S-9W Kingman co KS
INTERVAL : 4201.00 To 4216.00 m.

DATE 11-24-00
KB 1614.00 m. TICKET NO: 13255 DST #2
GR 1609.00 m. FORMATION: Mississippi
TD 4216.00 m. TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 0432 to 0502 hr
SI 60 Range(kPa)	4200.0	4200.0	4950.0	0.0	0.0	IS Fr. 0502 to 0602 hr
SF 60 Clock(hrs)	12	12	Elec			SF Fr. 0602 to 0702 hr
FS 90 Depth(m.)	4213.0	4213.0	4207.0	0.0	0.0	FS Fr. 0702 to 0832 hr

	Field	1	2	3	4	
A. Init Hydro	2103.0	2107.0	0.0	0.0	0.0	T STARTED 0157 hr
B. First Flow	160.0	147.0	0.0	0.0	0.0	T ON BOTM 0427 hr
B1. Final Flow	160.0	141.0	0.0	0.0	0.0	T OPEN 0432 hr
C. In Shut-in	1151.0	1155.0	0.0	0.0	0.0	T PULLED 0832 hr
D. Init Flow	170.0	167.0	0.0	0.0	0.0	T OUT 1000 hr
E. Final Flow	149.0	135.0	0.0	0.0	0.0	
F. Fl Shut-in	1140.0	1135.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2082.0	2066.0	0.0	0.0	0.0	Tool Wt. 2100.00 daN
Inside/Outside	I	I				Wt Set On Packer 20000.00 daN
						Wt Pulled Loose 70000.00 daN
						Initial Str Wt 66000.00 daN
						Unseated Str Wt 66000.00 daN
						Bot Choke 0.75 mm
						Hole Size 7.78 mm
						D Col. ID 2.25 mm
						D. Pipe ID 3.80 mm
						D.C. Length 262.00 m.
						D.P. Length 3926.00 m.

RECOVERY

Tot Fluid 185.00 m. of 185.00 m. in DC and 0.00 m. in DP
4004.00 m. of Gas in pipe
185.00 m. of Very slightly gas cut mud
0.00 m. of 4% gas 96% mud
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in 15 seconds. Gas to surface in 2 minutes Gauge gas.

Initial Shut-In:
Bled down for 15 minutes. NO blow back.

Final Flow:
Strong blow bottom of bucket in 10 seconds. Gauge gas.

Final Shut-In:
Bled down for 15 minutes.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 kg/m
Vis.	54.00 S/L
W.L.	8.00 cm3
F.C.	0.00 mm
Mud Drop	

Amt. of fill	0.00 m.
Btm. H. Temp.	0.00 C

Hole Condition	
% Porosity	0.00
Packer Size	6.75 mm
No. of Packers	2
Cushion Amt.	0.00

Cushion Type
Reversed Out

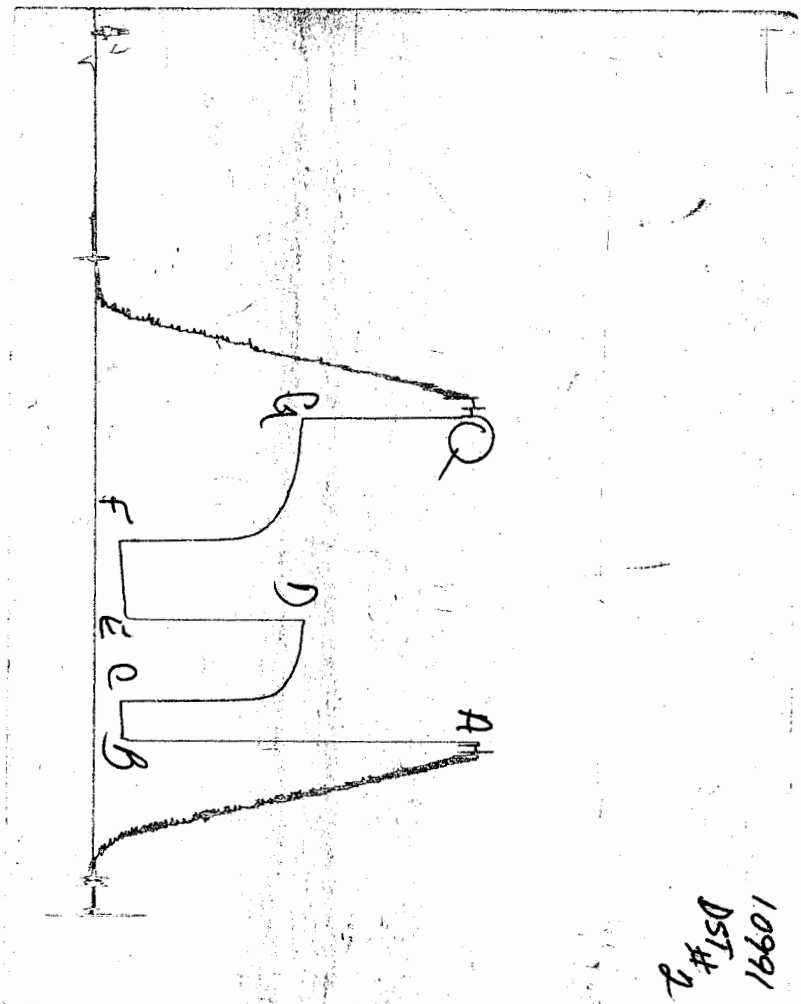
Tool Chased

Tester Darren Amerine
Co. Rep. Dave Clothier
Contr. Pickrell

Rig # 1
Unit #
Pump T.

Test Successful: Y

10991
DST #2



This is a photocopy of the actual AK-1 recorder chart



GAS VOLUME REPORT

McCoy Pet Corp.

Woodard "S" #

WELL NAME AND NO.

Miss. 2
DST NO

GTS indmint.

Final Flow

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13255

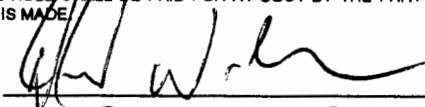
Test Ticket

Well Name & No.	Woodard "S" #1-2	Test No.	#2	Date	11/24/00
Company	McCoy Pct. Corp. 4535 Webb Ad.	Zone Tested	M-55		
Address	Suite 310 P.O. box 780208 Wichita, KS	Elevation	1614	KB	1609 GL
Co. Rep / Geo.	Dave Clothier	Cont.	Pickrell #1	Est. Ft. of Pay	Por. %
Location: Sec.	2	Twp.	205	Rge.	9W
				Co.	Kingman State
					KS
No. of Copies	5	Distribution Sheet (Y, N)		Turnkey (Y, N)	
				Evaluation (Y, N)	

Interval Tested	4201 - 4216	Initial Str Wt./Lbs.	6600	Unseated Str Wt./Lbs.	6600
Anchor Length	16'	Wt. Set Lbs.	20000	Wt. Pulled Loose/Lbs.	2000
Top Packer Depth	4196'	Tool Weight	2100		
Bottom Packer Depth	4201'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓
Total Depth	4216'	Wt. Pipe Run	N/A	Drill Collar Run	262.07
Mud Wt.	9.4 LCM 0 Vis. 54 WL 8.0	Drill Pipe Size	4 1/2 XH	Ft. Run	3926.93
Blow Description	IF: Strong blow b.o.b in 15 sec. OTS in 2 mins Gauge gas ISI: Bleed down for 15 mins No blow back FF: Strong blow b.o.b in 10 sec. Gauge gas FSI: Bleed down for 15 mins				
Recovery — Total Feet	185'	GIP	4004'	Ft. in DC	185'
				Ft. in DP	
Rec.	185'	Feet Of	USGCM	4 %gas	%oil %water %mud
Rec.	4004'	Feet Of	Gas In pipe	%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud
BHT		°F Gravity		°API D@	
				°F Corrected Gravity	
RW		@		°F Chlorides	
				ppm Recovery	Chlorides 4000 ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	2103	Recorder PSI	Recorder No. 2350	T-On Location	0100
(B) First Initial Flow Pressure	160	5% app. PSI	(depth) 4207'	T-Started	0157
(C) First Final Flow Pressure	160	PSI	Recorder No. 10991	T-Open	0732
(D) Initial Shut-In Pressure	1151	PSI	(depth) 4213'	T-Pulled	0832
(E) Second Initial Flow Pressure	170	PSI	Recorder No.	T-Out	1000
(F) Second Final Flow Pressure	149	PSI	(depth)	T-Off Location	1145
(G) Final Shut-in Pressure	1140	PSI	Initial Opening 30	Test	✓ 750
(Q) Final Hydrostatic Mud	2082	PSI	Initial Shut-in 60	Jars	
			Final Flow 60	Safety Joint	
			Final Shut-in 90	Straddle	

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Approved By 

Our Representative Darren L Amerino

Elec. Rec. 
Mileage 36 36
Other _____
TOTAL PRICE \$ 786

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number:	20006043	Analyzed:	12/01/00
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Sample From: Woodard S 1-2 DST 1
Producer: McCoy Petroleum

Pressure:
Temperature:

Date:	Location:	2-20-9
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Time:	County:	Kingman
Sampler:	State:	Kansas
Source:	Formation:	Miss

	Mole %	GPM
Helium	He: 0.226	0.000
Hydrogen	H2: 0.011	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.863	0.000
Carbon Dioxide	CO2: 0.028	0.000
Methane	C1: 83.735	0.000
Ethane	C2: 6.338	1.695
Propane	C3: 3.636	1.002
Iso Butane	iC4: 0.469	0.153
Normal Butane	nC4: 1.011	0.319
Iso Pentane	iC5: 0.205	0.075
Normal Pentane	nC5: 0.242	0.088
Hexanes Plus	C6+: 0.236	0.103

TOTAL: 100.000 3.435

Z Fact: 0.9973

SP.GR.: 0.6736

BTU (SAT): 1113.6 @ 14.73 psia

BTU (DRY): 1133.3 @ 14.73 psia

OCTANE RATING: 120.6

COMMENTS:

0.000