Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1084278

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🗌 East 🗌 West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.): If Workover/Re-entry: Old Well Info as follows: Operator: Well Name: Original Comp. Date: Original Total Depth:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt.
□ Deepening □ Re-perf. □ Conv. to ENHR □ Conv. to SWD □ Plug Back □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	QuarterSec. TwpS. R East West County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

1084278

									104210		
Operator Name:					Lease N	Name: _			Well #:		
Sec Twp	S	. R	East	West	County	:					
INSTRUCTIONS: Sopen and closed, flow and flow rates if gas	wing and	d shut-in pres	sures, whe	ether shut-in pr	ressure reacl	hed stati	c level, hydro	static pressures			
Final Radioactivity L files must be submit	-	-					ogs must be e	emailed to kcc-w	ell-logs@kcc.ks.gov	v. Digital e	lectronic log
Drill Stem Tests Take			Y	es No				ation (Top), Dep			ample
Samples Sent to Ge	ological	Survey		es No		Nam	е		Тор	Da	atum
Cores Taken Electric Log Run			☐ Y ☐ Y	_							
List All E. Logs Run:											
				CASING	G RECORD	│ Ne	ew Used				
			Rep	ort all strings set	-conductor, su	rface, inte	ermediate, prod	luction, etc.			
Purpose of String		Size Hole Drilled		ze Casing et (In O.D.)	Weig Lbs./		Setting Depth	Type o Cemen			nd Percent ditives
				ADDITIONA	L CEMENTIN	NG / SQL	JEEZE RECO	RD			
Purpose: Depth Type of Cement		e of Cement	# Sacks	# Sacks Used Type and Percent Additives							
Perforate Protect Casing	,										
Plug Back TD Plug Off Zone											
Did you perform a hydr		-					Yes	=	lo, skip questions 2 ar	nd 3)	
Does the volume of the Was the hydraulic fract		-		_		-	? Yes		No, skip question 3) No, fill out Page Three	of the ACO-	.1)
vvas trie riyuradiic iract						gisti y :		·			
Shots Per Foot				RD - Bridge Plu Each Interval Pe			Acid,		ement Squeeze Record of Material Used)	t b	Depth
TUBING RECORD:	Si	ze:	Set At	:	Packer At	t:	Liner Run:	Yes	No		
Date of First, Resume	ed Product	tion, SWD or El	NHR.	Producing Me	thod:						
				Flowing	Pumping	g 🗌	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	l	Oil	Bbls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio		Gravity
DISPOSIT	TION OF (348.			METHOD OF	COMPLE	TION:		PRODUCTIO)N INTERW	71 ·
Vented So	_	JAS. Used on Lease		Open Hole	Perf.	Dually	Comp.	Commingled	THODOCH	ZININILITYA	
(If vented, S				Other (Specify) _		(Submit)	4 <i>CO-5)</i> (8	Submit ACO-4)			

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Smith 1
Doc ID	1084278

All Electric Logs Run

CNDL	
DIL	
Micro	
Sonic	

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Smith 1
Doc ID	1084278

Tops

Name	Тор	Datum
Anhydrite	1007	+993
Heebner	3300	-1300
Toronto	3317	-1317
Douglas	3327	-1327
Brown Lime	3380	-1380
Lansing	3390	1390
Base Kansas City	3619	-1619
Arbuckle	3655	-1655

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Smith 1
Doc ID	1084278

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	1016	60-40 POZ	2% gel, 3% CC

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

June 12, 2012

Allen Bangert Mai Oil Operations, Inc. 8411 PRESTON RD STE 800 DALLAS, TX 75225-5520

Re: ACO1 API 15-009-25677-00-00 Smith 1 SE/4 Sec.06-20S-15W Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Allen Bangert

JAMES C. MUSGROVE

Petroleum Geologist 212 Main Street P.O. Box 215 Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mail Oil Operations Smith #1 SW-SE-NW-SE (1480' FSL & 1810' FEL) Section 6-20s-15w Barton County, Kansas Page 1

Dry and Abandoned

Contractor:

Southwind Drilling Co. (Rig #3)

Commenced:

April 23, 2012

Completed:

April 30, 2012

Elevation:

2000' K.B; 1998' D.F; 1992' G.L.

Casing program:

Surface; 8 5/8" @ 1016'

Production; none.

Sample:

Samples saved and examined 3200' to the Rotary Total Depth.

Drilling time:

One (1) foot drilling time recorded and kept 3200 ft to the Rotary Total

Depth.

Measurements:

All depths measured from the Kelly Bushing.

Drill Stem Tests:

There were three (3) Drill Stem Tests ran by Trilobite Testing.

Electric Log:

By Superior Well Services; Dual Induction, Compensated Neutron/Density

Log, Micro and Sonic.

<u>Formation</u>	Log Depth	<u>Sub-Sea Datum</u>
Anhydrite	1007	+993
Base Anhydrite	1029	+971
Heebner	3300	-1300
Toronto	3317	-1317
Douglas	3327	-1327
Brown Lime	3380	-1380
Lansing	3390	-1390
Base Kansas City	3619	-1619
Arbuckle	3655	-1655
Rotary Total Depth	3790	-1790
Log Total Depth	3788	-1788

(All tops and zones corrected to Electric Log measurements).

Mail Oil Operations Smith #1 SW-SE-NW-SE (1480' FSL & 1810' FEL) Section 6-20s-15w Barton County, Kansas Page 2

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA/TORONTO SECTION

3200-3300'

No show of oil and/or gas was noted.

LANSING SECTION

3391-3400'	Limestone; gray, white, oolitic, chalky, few dolomitic plus whit oolitic chert.
3419-3430'	Limestone; white, gray, finely crystalline, chalky, fossiliferous in part, poor visible porosity, no show.
3433-3448'	Limestone; gray, cream, fine and medium crystalline, chalky, fossiliferous, poor porosity, no shows.
3451-3460'	Limestone; white, cream, dolomitic, poor porosity, questionable stain, no show of free oil and no odor in fresh samples.
3461-3485	Limestone; tan, brown, oomoldic, good oomoldic porosity, (barren).
3521-3525'	Limestone; gray, brown, oomoldic, good oomoldic porosity, (barren).
3540-3552'	Limestone; as above, oolitic, oomoldic, fair oomoldic porosity, no shows.
3561-3570'	Limestone; cream, white, oolitic, oomoldic, fair oomoldic porosity, trace white chert,
3601-3616'	Limestone; gray, white, finely crystalline, fossiliferous, chalky, no shows.

ARBUCKLE SECTION

3665-3671'	Dolomite; tan, gray, fine and medium crystalline, scattered
	porosity, light brown stain, weak show of free oil and strong odor
	in fresh samples.

3671-3678' Dolomite; as above, few sucrosic, trace stain, trace free oil and fair odor in fresh samples.

Mail Oil Operations Smith #1 SW-SE-NW-SE (1480' FSL & 1810' FEL) Section 6-20s-15w Barton County, Kansas Page 3

Drill Stem Test #1

3661-3680' (log measurements 3659-3678')

Times:

30-30-45-45

Blow:

Strong

Recovery:

1675' gas in pipe 62' thin watery mud 1615' muddy water

Pressures: ISIP 1052

FSIP 1059 psi IFP 158-489 psi FFP 510-820 psi HSH 1837-1767 psi

3680-3702'

Dolomite; cream, white, oomoldic, fine oomoldic and vuggy type porosity, brown and golden brown stain, show of free oil and fair odor in fresh samples. Plus trace white chert.

psi

Drill Stem Test #2

36813704'

Times:

30-30-30-30

Blow:

Strong

Recovery:

1000' gas in pie

1984' muddy water

Pressures: ISIP 1046

psi

FSIP 1053

psi

IFP 183-634 FFP 655-898

psi psi

HSH 1830-1773

psi

3704-3728'

Dolomite; tan, gray, fine and medium crystalline, scattered porosity, brown and golden brown stain, show of free oil and strong odor in fresh samples.

Mail Oil Operations Smith #1 SW-SE-NW-SE (1480' FSL & 1810' FEL) Section 6-20s-15w Barton County, Kansas Page 4

Drill Stem Test #3

3706-3730' (log measurements 3704-3728')

Times:

30-30-30-30

Blow:

Strong; gas to surface in 30 minutes, TSTM 2nd opening, GTS gas gauged as follows:

10 minutes

26,020 cfgpd

20 minutes

30,780 cfgpd

30 minutes

30,780 cfgpd

Recovery:

1240' muddy water

682' very slightly oil cut gassy muddy water

(2% mud, 2% oil, 6% gas, 90% water)

124' gassy water, oil scum

62' gassy mud

Pressures: ISIP

SIP 1049 psi

FSIP 1057 psi IFP 260-638 psi FFP 651-896 psi HSH 1853-1796 psi

3730-3750'

Dolomite; cream, brown, fine and medium crystalline, few with scattered intercrystalline porosity, brown stain, show of free oil

and faint odor, plus white boney chert.

3750-3770'

Dolomite; buffy, gray, finely crystalline, sucrosic, scattered

porosity, trace brown stain, no fee oil and faint odor.

3770-3788'

Dolomite; cream, brown and pink, finely crystalline, sucrosic,

poorly developed porosity, no shows.

Rotary Total Depth

3790

Log Total Depth

3788

Recommendations:

The Smith #1 was plugged and abandoned at the Rotary Total Depth 3790.

Respectfully submitted;

James C. Musgrove, Petroleum Geologist



DRILL STEM TEST REPORT

Mai Oil Operations Inc

6-20s-15w Barton,KS

8411 Preston Rd Ste 800 Dallas TX 75225

Smith #1 Job Ticket: 46319

DST#: 1

ATTN: Jim Musgrove

Test Start: 2012.04.28 @ 05:43:00

GENERAL INFORMATION:

Time Tool Opened: 07:34:00

Time Test Ended: 12:10:00

Formation:

Arbuckle

Deviated:

Interval:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No:

42

Reference Elevations:

1992.00 ft (KB)

1987.00 ft (CF)

Total Depth:

3661.00 ft (KB) To 3680.00 ft (KB) (TVD)

KB to GR/CF:

5.00 ft

Hole Diameter:

Press@RunDepth:

3680.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Serial #: 8700

Outside

820.95 psig @ 3677.00 ft (KB)

2012.04.28

Capacity:

8000.00 psig

Start Date: Start Time:

2012.04.28 End Date: End Time:

12:09:59

Last Calib .: Time On Btm: 2012.04.28

2012.04.28 @ 07:32:30

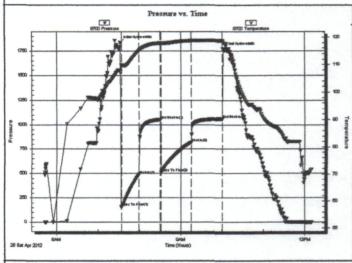
Time Off Btm: 2012.04.28 @ 10:01:30

TEST COMMENT: 30 - IF- B.O.B. in 2 Min.

30 - ISI- 3/4" blow back 45 - FF- B.O.B. in 3 Min

05:43:05

45 - FSI- 1/2" blow back, died in 27 Min.



Min.) (psig) (deg F) 0 1837.98 107.15 Initial Hydro-static 2 158.37 109.88 Open To Flow (1) 27 489.24 115.13 Shut-In(1) 58 1052.06 117.92 End Shut-In(1) 59 510.05 117.79 Open To Flow (2)
2 158.37 109.88 Open To Flow (1) 27 489.24 115.13 Shut-ln(1) 58 1052.06 117.92 End Shut-ln(1)
27 489.24 115.13 Shut-ln(1) 58 1052.06 117.92 End Shut-ln(1)
58 1052.06 117.92 End Shut-In(1)
,
59 510.05 117.79 Open To Flow (2)
103 820.95 118.76 Shut-In(2)
148 1059.01 118.74 End Shut-In(2)
149 1767.58 118.49 Final Hydro-static

Description	Volume (bbl)
V, 10%M, 90%W	0.87
V, 2%M, 98%W	21.74
M, 10%W, 90%M	0.87
	Description W, 10%M, 90%W W, 2%M, 98%W M, 10%W, 90%M

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 46319

Printed: 2012.05.03 @ 14:19:12



DRILL STEM TEST REPORT

Mai Oil Operations Inc

6-20s-15w Barton, KS

8411 Preston Rd Ste 800

Job Ticket: 46320

Smith #1

DST#: 2

Dallas TX 75225

ATTN: Jim Musgrove

Test Start: 2012.04.28 @ 17:26:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 19:07:00

Tester:

Time Test Ended: 00:16:00

Unit No:

Cody Bloedorn 42

Interval:

1992.00 ft (KB)

Total Depth:

3681.00 ft (KB) To 3704.00 ft (KB) (TVD)

Reference Elevations:

Hole Diameter:

3704.00 ft (KB) (TVD)

1987.00 ft (CF)

KB to GR/CF:

5.00 ft

Press@RunDepth:

Serial #: 8700

Outside

898.75 psig @ 3701.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2012.04.28 End Date:

2012.04.29

Last Calib .:

2012.04.29

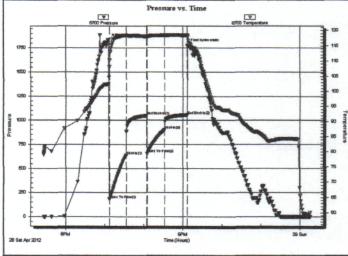
17:26:05

7.88 inches Hole Condition: Fair

End Time: 00:15:59

Time On Btm: 2012.04.28 @ 19:05:30
Time Off Btm: 2012.04.28 @ 21:07:00

TEST COMMENT: 30 - IF- B.O.B. in 1 Min. 30 - ISI- Surface blow back. 30 - FF- B.O.B. in 1 Min. 30 - FSI- Surface blow back



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1830.16	102.55	Initial Hydro-static
2	183.43	108.03	Open To Flow (1)
28	634.52	118.36	Shut-In(1)
59	1046.71	118.08	End Shut-In(1)
60	655.55	117.89	Open To Flow (2)
87	898.75	118.41	Shut-In(2)
121	1053.70	118.40	End Shut-In(2)
122	1773.66	118.53	Final Hydro-static
		-	

	Recovery	
Length (ft)	Description	Volume (bbl)
1922.00	MW, 10%M, 90%W	26.96
62.00	WM, 20%W, 80%M	0.87
Recovery from r	nultiple tests	

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 46320

Printed: 2012.05.03 @ 14:18:30



DRILL STEM TEST REPORT

Mai Oil Operations Inc

8411 Preston Rd Ste 800 Dallas TX 75225

ATTN: Jim Musgrove

6-20s-15w Barton,KS

Smith #1

Job Ticket: 46321

DST#: 3

Test Start: 2012.04.29 @ 06:05:00

GENERAL INFORMATION:

Time Tool Opened: 07:58:30

Time Test Ended: 13:12:30

Formation:

Arbuckle

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Cody Bloedorn

Unit No:

42

1992.00 ft (KB)

Reference Bevations:

KB to GR/CF:

1987.00 ft (CF) 5.00 ft

Interval:

Total Depth:

3706.00 ft (KB) To 3730.00 ft (KB) (TVD)

Hole Diameter:

3730.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair

Serial #: 8700 Press@RunDepth: Outside

06:05:05

896.14 psig @ 3727.00 ft (KB)

2012.04.29

Capacity:

8000.00 psig

Start Date: Start Time:

2012.04.29

End Date: End Time:

13:12:29

Last Calib.:

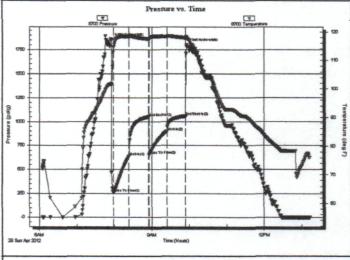
2012.04.29

Time On Btm: 2012.04.29 @ 07:55:00 Time Off Btm: 2012.04.29 @ 09:55:00

TEST COMMENT: 30 - IF- B.O.B. in 30 Seconds

30 - ISI- B.O.B. in 3 Min. G.T.S. on bleed off. 30 - FF- B.O.B. instantly, Gauging Gas

30 - FSI- B.O.B. in 3 Min.



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1853.45	101.77	Initial Hydro-static
4	260.34	114.69	Open To Flow (1)
29	638.50	118.32	Shut-In(1)
60	1049.25	117.46	End Shut-In(1)
61	651.68	117.29	Open To Flow (2)
89	896.14	118.35	Shut-In(2)
119	1057.12	117.90	End Shut-In(2)
120	1796.03	117.95	Final Hydro-static

Recovery

Description	Volume (bbl)
MW, 2%M, 98%W	17.39
GVSOCMW, 2%M, 2%O, 6%G, 90%W	9.57
GW - Oil scum, 40%G, 60%W	1.74
GM, 10%G, 90%M	0.87
	MW, 2%M, 98%W GVSOCMW, 2%M, 2%O, 6%G, 90%W GW - Oil scum, 40%G, 60%W

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	2.00	26.02
Last Gas Rate	0.25	5.00	30.78
Max. Gas Rate	0.25	5.00	30.78

Trilobite Testing, Inc

Ref. No: 46321

Printed: 2012.05.03 @ 14:17:51

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665

lo. 335

Cell 785-324-1041 State Finish Sec. Twp. Range County On Location Barton Date Location Albri Well No. Owner To Quality Oilwell Cementing, Inc. Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. T.D. 1016 Hole Size / Charge To Depth 10 Depth Tbg. Size Street Depth City State Tool Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor. Cement Left in Csg Cement Amount Ordered 400 Displace Meas Line EQUIPMENT Cementer No. Common Pumptrk Helper Driver Driver Driver No. Poz. Mix Bulktrk No. Bulktrk Gel. Driver / DANIC JOB SERVICES & REMARKS 1. 300 Calcium Remarks: Hulls . Salt Rat Hole Mouse Hole Flowseal Kol-Seal Centralizers Baskets Mud CLR 48 D/V or Port Collar OFL+117 or CD110 CAF 38 Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Centralizer Baskets AFU Inserts Float Shoe Latch Down Pumptrk Charge Mileage Tax Discount Total Charge

ALLIED OIL & GAS SERVICES, LLC 053602

Federal Tax I.D.# 20-5975804

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

SERVICE	POINT:
	-

Great Bend, Kg

DATE 6/- 30-12 SEC. TWP. RANGE 205 15W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
DAILE			COUNTY	STATE
LEASE SMITS WELL# LOCATION 4/ber	TIKS 855	Wingo	Barran	1500505
OLD OR NEW (Circle one)	,			
			_	
CONTRACTOR Southwind Pilling Rig 3	OWNER			*.
TYPE OF JOB RUTSLY Plug				
HOLE SIZE 12 M T.D.	CEMENT			
CASING SIZE 8 5/4 DEPTH	AMOUNT OF	RDERED 180	5KS 601	1 Class A
TUBING SIZE DEPTH	40 41 po	2 Utigel	1/4 Flo-	500/
DRILL PIPE 4 /2 DEPTH 3638				
TOOL DEPTH				
PRES. MAX MINIMUM	COMMON_			
MEAS. LINE SHOE JOINT			@	
CEMENT LEFT IN CSG. A !!			@	
PERFS.	CHLORIDE		@	
DISPLACEMENT fresh norm	ASC	,	@	
EQUIPMENT			@	
			@	
PUMPTRUCK CEMENTER DASTI'S C			@	
# 398 HELPER Kerin E	-		@	
BULK TRUCK	-		@	
# 462-241 DRIVER Berin W			@	
BULK TRUCK	-		@	
# DRIVER			@	
# DRIVER			@	
	MILEAGE _			_
REMARKS:			TOTA	L
Pipe on Boryom full hole wigh Rig Man				
15- 3636 Fr 25 5kg		SERVI	CE	
2ND-1030 Fr 25 5/8				
3BD- 567 F+ 40 3KS	DEPTH OF JO	OB		
UTh- 40 Ft 10 5Ks	PUMP TRUCK CHARGE			
R.H 30 5 hs	EXTRA FOO	TAGE	@	
	MILEAGE_		@	
Plug Pown 12:00 pm	- MANIFOLD			
,				
			@	
CHARGE TO: Mai Oil				
			ТОТА	L
STREET			IOIA	L
CITYSTATEZIP				
CIT I STATE ZIT		PLUG & FLOA	T EQUIPME	NT
			@	<u> </u>
To: Allied Oil & Gas Services, LLC.				
You are hereby requested to rent cementing equipment				