KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

ORIGINAL Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 6194	API No. 15 - 167-23, 436-0000
Name: ESP DEVELOPMENT, INC.	County: Russell
Address: 1749 250th Avenue	170 W of SE SW NE Sec. 21 Twp. 11 S. R. 15W East West
City/State/Zip: Hays, KS 67601	2310 feet from S / (N) (circle one) Line of Section
Purchaser:	feet from (E) W (circle one) Line of Section
Operator Contact Person: Lewis Fulert	Footages Calculated from Nearest Outside Section Corner:
Phone: (.785_) 625_6394	(circle one) (NE) SE NW SW
Contractor: Name:Discovery Drilling Co., Inc	THE POW PANGE HE
License: 31548	Field Name: Hagaman North
Wellsite Geologist: Jason Alm	Producing Formation: <u>Arbuckle</u>
Designate Type of Completion:	Elevation: Ground: 1882 Kelly Bushing: 1890
X New Well Re-Entry Workover	Total Depth: 3410 Plug Back Total Depth:
	Amount of Surface Pipe Set and Cemented at522.30Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
If Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth tow/sx cmt.
Well Name:	(15sks In Rat Hole)(10sks In Mouse Hole)
Original Comp. Date: Original Total Depth:	Drilling Fluid Management Plan AI+ I NCR 1-9-00 (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 16,000 ppm Fluid volume 300 bbls
Plug BackPlug Back Total Depth	Dewatering method used Evaporation
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No	Operator Name:
	Lease Name: License No.:
6/18/07 6/22/07 6/23/07 Spud Date or Date Reached TD Completion Date or	Quarter Sec Twp S. R East West
Recompletion Date Recompletion Date	County: Docket No.:
·	
Kansas 67202, within 120 days of the spud date, recompletion, worko Information of side two of this form will be held confidential for a period of 107 for confidentiality in excess of 12 months). One copy of all wireline log TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged well	
All requirements of the statutes, rules and regulations promulgated to regunderein are complete and correct to the best of my knowledge.	ulate the oil and gas industry have been fully complied with and the statements
Signature: Rewis Enlect	KCC Office Use ONLY
Title: President Date: 10-17-07	Letter of Confidentiality Received
19 001 1	If Denied, Yes Date:
	Wireline Log Received
20 DO DONNA SUE	Geologist Report Received
Notary Public: DONNA SUF	UIC Distribution
	T Kansas

Operator Name: <u>ES</u> Sec. <u>21</u> Twp. 1	SP DEVELOPME 11 s p 15W				se Na nty:		Russe		ANCH "J"	Well #:		
NSTRUCTIONS: Sho lested, time tool open a lemperature, fluid reco Electric Wireline Logs s	w important tops ar and closed, flowing very, and flow rates	nd base of form and shut-in po if gas to surfa	mations pe ressures, r ace test, a	enetrated whether long with	d. De shut-	tail all in pres	sure rea	ched s	tatic level, hyd	rostatic pressu	res, botton	n hale
Drill Stem Tests Taken (Attach Additional St	neets)	X Yes	∏ No			χLο	g Fo	rmatio	n (Top), Depth	and Datum	□s	ample
Samples Sent to Geological Survey Cores Taken Electric Log Run] Yes			Bas Top	ydrite e Anh eka		2	Top 950 988 716	+94 +90 - 82	2 6
<i>(Submit Copy)</i> .ist All E. Logs Run: _M R	ICRO ADIATION GU	ARD LOG				Tor Lan BKC Arb	bner onto sing uckle al De _l	oth	2 3 3 3	970 987 018 277 341 409	-108 -109 -112 -138 -145 -151	7 8 7 1
		Report all s	CASING strings set-c			X New ce, inter			on, etc.			
Purpose of String	Size Hole Drilled	Size Cas Set (In C			Veight os. / Ft.		Settin Depti		Type of Cement	# Sacks Used		nd Percent ditives
Surface Pipe	12½	8 5	/8		23_		522.	30	Common	250	2%Gel	&3%CC
Production St	7 7/8	5월		14_			3400		Common	150	10%5	Salt
		AD	DITIONAL	CEMEN	ITING	/ SQU	EEZE RE	CORD			<u> </u>	
Purpose:	Depth Top Bottom	Type of Ce			cks Us				Type and	Percent Additive	s	
Perforate Protect Casing Plug Back TD X Plug Off Zone	3387 to 3348-48	Common Common		75 1 7 8	sks sks			lbs le sal				
Shots Per Foot	PERFORATION Specify F	ON RECORD - Footage of Each	Bridge Plug Interval Per	s Set/Ty forated	pe			(Am	ount and Kind of	ent Squeeze Reco Material Used) MOD W/ c1		Depth
2 sts '	2749-55 ft 3444-50						200	gal	15% NE	FE reacid	ze w/	y
							resh	t _F E	nd treat	ed w/500	gal	
TUBING RECORD	Size 2 3/8	Set At 3358.10		Packe	er At		Liner Ru		Yes 🔀 I	No		
Date of First, Resumerd	Production, SWD or E		oducing Met	hod		Flowing		Pumpin	g 🔲 Gas	Lift Ot	her <i>(Explain)</i>	
8-10- Estimated Production Per 24 Hours	·07 Oil 27	Bbls.	Gas O	Mcf		Wate 54	A		ols.	Gas-Oil Ratio	-	Gravity 34
Disposition of Gas Vented Sold (If vented, Sub	METHOD OF C		Open Hole Other (Spec	ŞĘ F	Perf.		Production	i	_	0' 274		



P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator:	ESP	Develo	pment	. Inc.	LIC# 6194
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1749 250th Avenue Hays, KS 67601

PO Box 763 Hays, KS 67601

Lease: Eulert Ranch "J" #2

Location: 170' W of SE / SW / NE

Sec. 21 / 11S / 15W Russell Co., KS

Contractor: Discovery Drilling Co., Inc. LIC#31548

Loggers Total Depth: 3409' Rotary Total Depth: 3410' Commenced: 6/18/2007

API#15- 167-23, 436-0000 Elevation: 1882' GL / 1890' KB

Completed: 6/23/2007 Status: Oil Well

Casing: 8 5/8" @ 522.30' w / 250 sks

5 1/2" @ 3400' w / 150 sks

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	•	0'	Shale		993'
Dakota Sand		320'	Shale 8	& Lime	1546'
Shale		382'	Shale		1960'
Cedar Hill Sand		488'	Shale 8	& Lime	2259'
Red Bed Shale		638'	Lime &	Shale	2848'
Anhydrite		960'	RTD		3410'
Base Anhydrite		993'			
STATE OF KANSAS)				
COUNTY OF ELLIS) ss)				

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

Thomas H. Alm

Subscribed and sworn to before me on

My Commission expires:

(Place stamp or seal below)

Notary Public

RECEIVED KANSAS CORPORATION COMMISSION

OCT 19 2007

CONSERVATION DIVISION WICHITA, KS

NOTARY PUBLIC - State of Kansas My Appt. Exp.



DRILL STEM TEST REPORT

ESP Development Inc

Eulert Ranch J #2

1749 250th Avenue Hays KS 67601

ATTN: Jason Alm

21 11 15 Russell KS

Job Ticket: 28304

DST#: 1

Test Start: 2007.06.23 @ 05:31:25

GENERAL INFORMATION:

Time Tool Opened: 07:11:40

Time Test Ended: 11:42:55

Formation:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Straddle

Tester:

Jäson McLemore

Unit No:

Interval:

3337.00 ft (KB) To 3359.00 ft (KB) (TVD)

Reference Bevations:

1890.00 ft (KB)

Total Depth:

3409.00 ft (KB) (TVD)

1882.00 ft (CF)

Hole Diameter:

7.80 inches Hole Condition: Good

KB to GR/CF:

8.00 ft

Serial #: 6719

Press@RunDepth:

Inside

127.11 psig @

3345.00 ft (KB) End Date:

2007.06.23

Capacity:

7000.00 psig

Start Date: Start Time: 2007.06.23 05:31:27

End Time:

11:42:55

Last Calib .: Time On Btm: 2007.06.23

Time Off Btm:

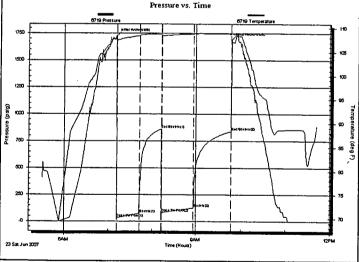
2007.06.23 @ 07:11:25 2007.06.23 @ 09:47:40

TEST COMMENT: IFP Fair Blow BOB in 21 Mn.

ISI Dead

FFP Fair Blow BOB in 33 Min

FSI



PRES	SUR	E SL	JMM	ARY
	*** ** *		4 44	

	•		<u> </u>	** · · · · · · · · · · · · · · · · · ·
	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	. 0	1727.98	107.83	Initial Hydro-static
	1	33.02	107.46	Open To Flow (1)
	32	74.89	108.35	Shut-In(1)
4	62	860.39	108.65	End Shut-In(1)
	62	82.20	108.46	Open To Flow (2)
	106	127.11	108.71	Shut-In(2)
1	156	841.06	108.74	End Shut-In(2)
2	157	1690.29	108.92	Final Hydro-static
1				
1				
1				
I				

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Muddy Water w/Oil Show	2.23
70.00	Clean Oil	0.98
	<u> </u>	

Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 28304

Printed: 2007.06.26 @ 13:48:12 Page 2 KANSAS CORPORATION COMMISSION



DRILL STEM TEST REPORT

Prepared For:

ESP Development Inc

1749 250th Avenue Hays KS 67601

ATTN: Jason Alm

21 11 15 Russell KS

Eulert Ranch J #2

Start Date: 2007.06.23 @ 05:31:25

End Date:

2007.06.23 @ 11:42:55

Job Ticket #: 28304

DST#: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



CHARGE TO:	
ESP	
ADDRESS	
CITY, STATE, ZIP CODE	

TICKET
Nº 11566

	rices, I	nc.		ITY, STATE,	ZIP CO	DE									PA	1	NOISS /	
SERVICE LOCATIONS 1. JAYS 2. WESS		WELL/PROJECT NO # 2 TICKET TYPE CO SE SERVICE SALES			E42	ERT RANCH J	•	COUNTY/PARISH RUSSECC RIG NAME/NO.		VS SHIPPED					ATE クアー	OWN	S CORPORATION COMP	TO!! DIVISION
3. 4. REFERRAL LOCATION		WELL TYPE D/L			^	EGORY JO		Westerwiten RPOSE SD. FERES		VIA CZ		3E, N. FAIRPORT KS WELL PERMIT NO. WEL			/ELL LOCATION		S CORPOR	CONSERVATION
PRICE	SECONDARY	NVOICE INSTRUCT		ACCOUNTIN	<u> </u>	· .						·					ASNS ASNS	
REFERENCE		UMBER	roc	ACCT	DF			DESCRIPTION			QTY.	U/M	QTY.	U/M	UNIT PRICE		AMOUN	r`
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378 290	·		+/-		╂—	PUMP SERVE	¢.				1	13		<u> </u>	1250	00	1250	00
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LIMITED WARRA	ANTY provisions	S.		vii i, and		SWIFT SE	٦ ا	VICES, INC.	MET YO	UR NEEDS	5? .\$				_			
	LIVERY OF GOODS	,	OR TO			P.O.	BC	X 466 KS 67560	WE OPE AND PER CALCUL SATISFA	RATED THE REPORMED ATIONS ACTORILY	HOUT DELAY? HE EQUIPMENT JOB ?	1			Russel TAX 7.3%	. 1	221	48
OATE SIGNED <u> </u>	TIM	SIGNED /OSO		A.M. □ P.M.		785-	798	3-2300		CUS1	ED WITH OUR S	T WISH T	□ NO O RESPOND		TOTAL	İ	5350	198
SWIFT OPERATOR ()	4 1	CUSTOME	RACCE	API	OF MA PROVAL	TERIALS AND SERVIC	CES	The customer hereby acknowledge	wledges red	ceipt of th	e materials ar	ıd service	es listed on th	is ticket			TC . C .	<i>(</i> - '
	TUE FTS#								_								Thank ?	tou!

ALLIED CEMENTING CO., INC.

22098

REMIT TO P.O. BOX 31 SERVICE POINT: **RUSSELL, KANSAS 67665** Russell RANGE CALLED OUT JOB FINISH ON LOCATION JOB START OLDOR NEW (Circle one) CONTRACTOR WEStern WELL
TYPE OF JOB & Speck Db **OWNER** HOLE SIZE **CEMENT** CASING SIZE 5/2 **DEPTH** AMOUNT ORDERED _ 25 Con TUBING SIZE 2" DEPTH 29/oll onsike DRILL PIPE DEPTH 7165 F1-10 TOOL DEPTH PRES. MAX MINIMUM COMMON MEAS. LINE SHOE JOINT POZMIX CEMENT LEFT IN CSG. GEL PERFS. 3343-57 CHLORIDE DISPLACEMENT ASC 刀丑 F6-10 **EQUIPMENT @** PUMP TRUCK CEMENTER _ raig & Sustin (a) HELPER Alian 400 @ BULK TRUCK **@** 910 DRIVER @ **BULK TRUCK** DRIVER HANDLING 75 MILEAGE _ **REMARKS:** 3343.67 + 3190 **SERVICE** DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE @ MANIFOLD . @ @ CHARGE TO: ESP TOTAL 1045 STREET _ PLUG & FLOAT EQUIPMENT @ @ To Allied Cementing Co., Inc. @ You are hereby requested to rent cementing equipment RECEIVED @ KANSAS CORPORATION COMMISSION and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was TOTAOCT 1 9 2007 done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND TAX ___ CONSERVATION DIVISION CONDITIONS" listed on the reverse side. WICHITA, KS TOTAL CHARGE ____ IF PAID IN 30 DAYS DISCOUNT -SIGNATURE And Wearly

PRINTED NAME

ALLIED CEMENTING CO., INC. 21927

REMIT TO P.O. BOX 31		SERV	ICE, POINT:	
RUSSELL, KANSAS 67665			1 1150	://
SE SW NE			1) "	
	ALLED OUT	ON LOCATION	JOB START	JOB FINISH
DATE 6-23-01 21 15 15W			COUNTY	STATE
FEASLERT RANGOELL # J-2 LOCATION PARAT	Dige 25	bw		KANSAS
	18 YZE I			
ODD OKALI (Cited only)	1 D JE L	~70	j	1 1
CONTRACTOR DISCOVERY DALa. Rig-# 2	OWNER			
TYPE OF JOB PRODUCTION STRING				
HOLE SIZE 27/8 T.D. 24/0	CEMENT		N	100
CASING SIZE 5 Ya Me UDEPTH 3405	AMOUNT ORD	ERED <u>175</u>	SK Com	. 10% SALT
TUBING SIZE 14# CSq. DEPTH 3			· · · · · · · · · · · · · · · · · · ·	
DRILL PIPE DEPTH	500 GAL	WFR-2	Flush	
TOOL LATCH DN. Plug ASSYDEPTH @ 3377		-	•	
PRES. MAX "MINIMUM	COMMON			
MEAS. LINE SHOE JOINT 28'	POZMIX			
CEMENT LEFT IN CSG. 28'	GEL			
PERFS.	CHLORIDE			
DISPLACEMENT 823/8BL	ASC	-		
EQUIPMENT				i
PUMPTRUCK CEMENTER GLENN			_@	
# 398 HELPER GARV			_@	
BULK TRUCK		92	_ @	
# 345 DRIVER CHRIS			@	
BULK TRÜCK			_ @	1
# DRIVER			_ @	
II DIXI DIX	HANDLING_ MILEAGE 2	 1 /		
	MILEAGE) low Mil		
REMARKS:			TOTAL	
Cont. 135,79,11				
		SERVI	CE	Ì
LAND LATEH DOWN Plug @ 1500# (HeLD)	DEPTH OF JOB			*
100	PUMP TRUCK	CHARGE		~
10 SK@ MOUSE Hole	EXTRA FOOTA	.GE	_@	
15 SKQ Rotyale	MILEAGE _2	<u>~</u>	_ @	
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	6-CenTRA	112885	_ @	RECEIVED
To Allied Cementing Co., Inc.	LATELH DO	WN Plum ASS	M @	ANSAS CORPORATION COMMISSIO
You are hereby requested to rent cementing equipment		0	<u>/</u> @~	
and furnish cementer and helper to assist owner or		,	_ @	- nct 1 9 2007
				001 13 2001
contractor to do work as is listed. The above work was			TOTAI	- CONSERVATION DIVISION
done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND				MICHITA S
	TAX		_	
CONDITIONS" listed on the reverse side.	mom. : :::::::::::::::::::::::::::::::::			
	TOTAL CHARC	je		
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SIGNATURE ////////////////////////////////////		CMAS	V-41	
, CALLOW		PRINT	ED NAME	

ALLIED CEMENTING CO., INC.

21966

REMIT TO P.O. BOX 31 SERVICE PQINT: RUSSELL, KANSAS 67665 Russell RANGE CALLED OUT ON LOCATION JOB START TWP.// COUNTY Russell LOCATION Russ a 281 25 OLD OR NEW Circle one) OWNER TYPE OF JOB Surface HOLE SIZE 12 14 CEMENT T.D. AMOUNT ORDERED 250 Com 32.CC DEPTH 5 22 CASING SIZE & 5/8 DEPTH **TUBING SIZE** DEPTH DRILL PIPE DEPTH TOOL _@_*_//*_@ MINIMUM COMMON PRES. MAX SHOE JOINT POZMIX MEAS. LINE CEMENT LEFT IN CSG. **GEL** CHLORIDE PERFS. ASC_ DISPLACEMENT **EOUIPMENT** PUMP TRUCK CEMENTER Share HELPER Rober **BULK TRUCK** DRIVER **BULK TRUCK** DRIVER HANDLING_ TOTAL . REMARKS: **SERVICE** DEPTH OF JOB PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE @ MANIFOLD CHARGE TO: ESP Development total 935 [∞] STREET _ _ STATE PLUG & FLOAT EQUIPMENT 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 RECEIVED TANSAS CORPORATION COMMISSION done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND TAX-CONDITIONS" listed on the reverse side. OCT 1 9 2007 TOTAL CHARGE DISCOUNT **SIGNATURE**

PRINTED NAME

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