#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 October 2008 Form Must Be Typed

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # N/A	API No. 15 - 155-21519-00-00
Name: Hayse Management Services for Semcrude LP	Spot Description:
Address 1: PO Box 107	NE_NE_NE_NW Sec. 22 Twp. 24 S. R. 4 East West
Address 2:	5250 Feet from 🕡 North / 🗌 South Line of Section
City: Mullinville State: KS Zip: 67109 +	Feet from East / West Line of Section
Contact Person: Dale Havse	Footages Calculated from Nearest Outside Section Corner:
Phone: (620 ) 548-2369	□ne □nw ☑se □sw
CONTRACTOR: License # KDHE - 639	County: Reno
Name: Hayse Management Services	Lease Name: N/A Well #: 53
Wellsite Geologist: N/A	Field Name: N/A
Purchaser: N/A	Producing Formation: N/A
Designate Type of Completion:	Elevation: Ground: 1465 Kelly Bushing:
✓ New Well Re-Entry Workover	Total Depth: 60' Plug Back Total Depth: 60'
OilSWDSIOW	Amount of Surface Pipe Set and Cemented at: WA GO Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used? Yes A No
CM (Coal Bed Methane) Temp. Abd.	If yes, show depth set:Feet
Dry X Other	If Alternate II completion, cement circulated from:
(Core, WSW, Expl. Cathodic, etc.)	
If Workover/Re-entry: Old Well Info as follows:	feet depth to: w/ A(+3-D)a-4/2/09
Operator: N/A	Drilling Fluid Management Plan
Well Name:	(Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	Chloride content: N/A ppm Fluid volume: bbls
Deepening Re-perf Conv. to Enhr Conv. to SWD	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Docket No.:	Operator Name:
Dual Completion Docket No.:	Lease Name: License No.:
Other (SWD or Enhr.?) Docket No.:	QuarterSecTwpS. R East West
Spud Date or Date Reached TD Completion Date or	County: Docket No.:
Recompletion Date  Recompletion Date  Recompletion Date	Docker No
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or co of side two of this form will be held confidential for a period of 12 months if requitiality in excess of 12 months). One copy of all wireline logs and geologist well BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form	nversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information uested in writing and submitted with the form (see rule 82-3-107 for confiden-I report shall be attached with this form. ALL CEMENTING TICKETS MUST
All requirements of the statutes rules and regulations promulgated to regulate tr are complete and correct to the pest of my knowledge.	e oil and gas industry have been fully complied with and the statements herein
Signature:	KCC Office Use ONLY
Title: Sep/, Date: 3-30-09	Letter of Confidentiality Resolved
Subscribed and sworn to before me this 30 day of MARCUT	Letter of Confidentiality Received If Denied, Yes Date:
•	Wireline Log Received
20 09.	Geologist Report Received RECEIVEU
Notary Public: Allu Mark	IE MUNTZ UIC Distribution KANSAS CORPORATION COMMISSIO
Date Commission Expires:    State   Commission Expires   State   Commission Expires   Notary Public   My Appt. Expires   Notary Public   Notar	c-State of Kansas AAAD 2 1 2000

#### Side Two

Operator Name: Hayse Management Services for Semcrude LP Lease Name: N/A Well #: 53  Sec. 22 Twp. 24 S. R. 4 East West County: Reno  INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperative 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 Wirelin surveyed. Attach final geological well site report.  Drill Stem Tests Taken Yes No Log Formation (Top), Depth and Datum Sam (Attach Additional Sheets)	ure, fluid e Logs ple		
time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperative 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 Wireling Surveyed. Attach final geological well site report.  Drill Stem Tests Taken  (Attach Additional Sheets)	ure, fluid e Logs ple		
(Attach Additional Sheets)			
	m		
Samples Sent to Geological Survey Yes V No			
Cores Taken Yes No Electric Log Run Yes No (Submit Copy)			
List All E. Logs Run:			
CASING RECORD New Used			
Report all strings set-conductor, surface, intermediate, production, etc.			
Purpose of String Size Hole Size Casing Weight Setting Type of # Sacks Type and Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additional Control of the			
N/A			
ADDITIONAL CEMENTING / SQUEEZE RECORD			
Purpose: Depth Type of Cement #Sacks Used Type and Percent Additives  ——Perforate Top Bottom	and Percent Additives		
— Protect Casing			
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		
N/A			
	<del></del> .		
	<del></del>		
TUBING RECORD: Size: Set At: Packer At: Liner Run:			
Date of First, Resumed Production, SWD or Enhr.  N/A  Producing Method:  Flowing Pumping Gas Lift Other (Explain)			
	Gravity		
DISPOSITION OF GAS: METHOD OF COMPLETION: PRODUCTION INTERVAL			
Vented   Sold   Used on Lease   Open Hole   Perf.   Dually Comp.   Commingled   Other (Specify)   Other (Specify)			

15-155-21519-000

### **EQUUS BEDS GROUNDWATER MANAGEMENT DISTRICT NO. 2**

313 Spruce Street Halstead, Kansas 67056 (316) 835-2224

# FORM CP-15 AS - Build APPLICATION FOR PERMIT TO DRILL AND CONSTRUCT AN UNCASED CATHODIC PROTECTION BOREHOLE

Permit Application Number CPB-\_53\_\_\_\_

To	the E	quus	Beds	Groundwater	Management	District No. 2:
----	-------	------	------	-------------	------------	-----------------

í . . . Î

Co	mes now the Applicant _	Havse Management Se	rvices for Sim Crude	
\A/h	nee Address is			
• • • •	PO Box 107	Mullinville	Kansas	67109
	(P.O. Box or Street)	(City)	(State)	(Zip Code)
Tel	ephone No. 620	548-2369		
	PO Box 107(P.O. Box or Street) ephone No620_ (Area C	Code) (Telephon	e)	
per aqu	d makes application to mit to drill and constructuifer in the county of cordance with the following	t a cathodic protectionReno,	borehole in and throu	igh the Equus Beds
1.	The location of the prop_NE quarter of the Range4_ west and north and2890 fe View Road, Reno Coun	e _NW quarter of more particularly describet west of the apparen	Section _22, Towr bed as being near a	ship _24, south, point5250_ feet
2.	The proposed use of the applicant'sTrans	e cathodic protection bomission Pipeline fac	orehole is to provide callity from electrochemic	athodic protection of cal corrosion.
3.	The land surface eleva measurement used was		above mean sea level	and the method of
4.	The depth to surface or	top of bedrock or shale	is310 +/ feet	below land surface.
<b>5</b> .	The depth to the water	table of the fresh water	aquifer is11 feet	below land surface.
6.	Aquifer salinity as in determined by: (a) pub			mg/L and was
7.	The total depth of the cand will be completed _			the bedrock surface
8.	The diameter of the uncinches.		perele will be a mi	

EBGWMD2 Form -CP-15 12-Dec-00

9.	Non toxic anodes that meet or exceed the American Water Works Association standards for use in public water supply systems and adopted through K.A.R. 82-3-707 will be installed beginning at a depth of20 feet below land surface to a total depth of60 feet below land surface.
10.	Anode conductor grout that is certified by the National Sanitation Foundation to meet the American National Standards Institute Standard 60 for use in drinking water treatment chemicals and adopted through K.A.R. 82-3-707 will be installed beginning at a depth of10 feet below land surface.
11.	The uncased borehole from the top of the anode conductor grout will be grouted with (c) bentonite clay grout from a total depth of10 feet below land surface to3 feet below land surface.
12.	The grouted uncased borehole will be backfilled with clean compacted topsoil from3 feet below land surface to0 feet above land surface.
13.	Will the use of a drilling pit threaten to contaminate fresh and usable groundwater?  Yes X No. If Yes, complete sections (a) and (b). Circle one: (a) the pit will be: (i) constructed so that the bottom and side have a hydraulic conductivity no greater than 1 x 10 <sup>-7</sup> cm/sec., (ii) constructed above ground, or (iii) a portable above ground tank, and (b) the applicant has submitted a surface pond application to the Director, Conservation Division, Kansas Corporation Commission.  Yes No.
14.	A construction plan is submitted with the application and shows or illustrates the information contained in paragraphs #4 through #12.
15.	The cathodic protection borehole will be abandoned and plugged if it: (a) is not completed due to unforeseen circumstances, (b) either contaminates or threatens to contaminate a fresh water aquifer, (c) encounters uncontrollable artesian flow, (d) has exhausted its anodes and replacement anodes are not installed within one year, or (e) has not been used for one year and the applicant does not demonstrate intentions to use it.
16.	The applicant understands and is aware that the Equus Beds Groundwater Management District No. 2 has adopted a resolution that establishes minimum standards to drill, construct and abandon cathodic protection boreholes and agrees to comply with the adopted standard and policy. Further, the applicant may, pursuant to District policy D.S.P. 9007.1 appeal these standards and request a waiver of an adopted standard.
17.	Dated at _Mullinville , Kansas, this27 day ofFebruary, 2007
	Hayse Management Services(Applicant)  By (Signature)
	RECEIVEDSupervisor(Title)

FEB 1 1 2009

APPLICANT - DO NOT CONTINUE BELOW DOUBLE LINE
For Equus Beds Groundwater Management District Use  1) Application received on 4 1/3 107.
2) Application review by Tim Boese
Hydrologist GMA2
3) The application is hereby denied. The denial was based on the following findings:
4) The application meets or exceeds the Cathodic Protection Borehole K.A.R. 82-3-700 and K.A.R. 82-3-705 through K.A.R. 82-3-710 and is hereby approved by Board of Directors Equus Beds Groundwater Management District No. 2 this
Tim Boere

Equus Beds Groundwater Management District No. 2

RECEIVED

FEB 1 1 2009

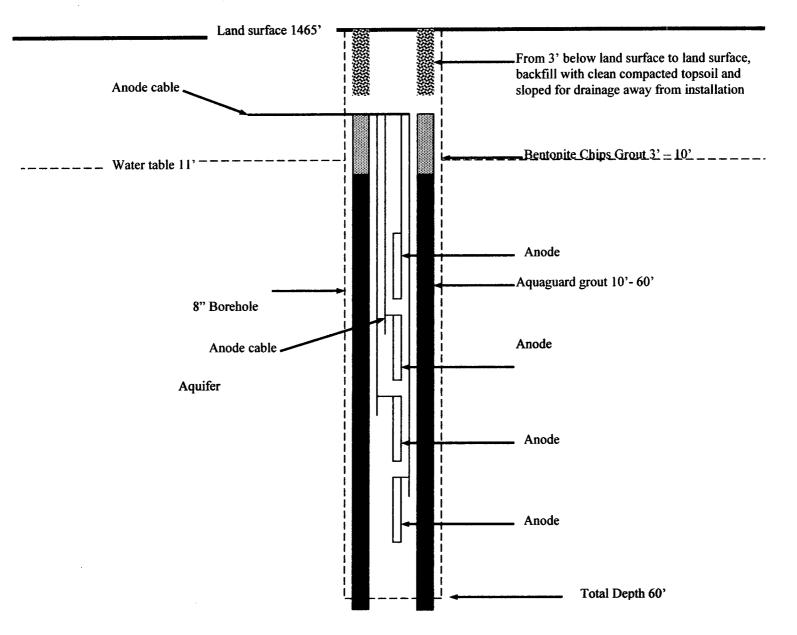
Equus Beds Groundwater Management District No. 2

> EBGMD2 Form - CP-15 Rev: 23 Aug 06

# EQUUS GROUNDWATER MANAGEMENT DISTRICT NO. 2 CATHODIC PROTECTION BOREHOLE ILLUSTRATION

**Uncased Borehole Construction Features** 

Long View Road Reno County, Kansas Borehole #1



RECEIVED

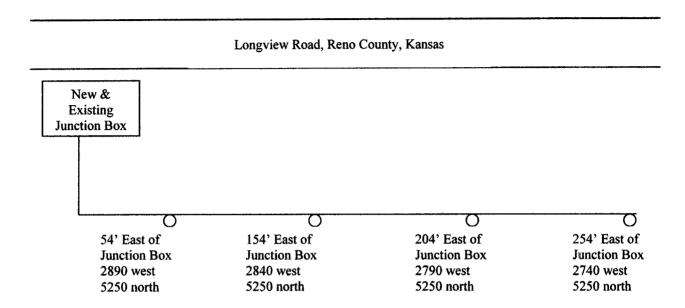
FEB 1 1 2009

Equus Beds Groundwater Management District No. 2

Bedrock surface 310'

Sim Crude Haven, Kansas Ground Bed

Installed: July 2007



RECEIVED

FEB 1 1 2009

JATER	WELL R	ECORD	Form WWC-5				r Kesources; Ap		
LLOCA	TION OF V	VATER WELL:	Fraction		Section Nu	mber	Township N T 24 S		Range Number R 4 E/W
	Dana		NW "NW "NW	-/4 C	22	onia- o	yeteme (desim		es, min. of 4 digits)
Distan	ce and direc	tion from nearest town or ci	ty street address of wel						
laasta	4 within city	9		1 2			<u></u>		
North of I	laven, KS t	o Longview Rd. and Victor	y Ka.						
2 WATE	R WELL	OWNER: Semcrude							
RR#,	St. Address	Box # 3101 SW 20th			Datum:				
City,	State, ZIP C	code El Dorado, KS	67042		Data Coll				
3 LOCA	TE WELL	'S 4 DEPTH OF COM	PLETED WELL 60			ft.			
LOCA	ATION	B.						/23	A
WITH	I AN "X" I ION BOX:	N Depth(s) Groundwat WELL'S STATIC WA	er Encountered (1) ATER LEVEL 999	ft. l	II. ( below land	surface	measured on	mo/day	<sub>/yr</sub> 7-2-07
SECI	M POY:	D 4444 dat	a. Wall water mee	1	tt atter		Hours but	MDM2	gpui
		ray Viold on	n· Well water was		It. arter		nours pu	աբաց	····· Bhu
X		WELL WATER TO	BE USED AS: 5 Public	: water s	upply	XAIT	conditioning	II mic	Chon Men
4 -	/NE	I Domestic 3 Fee	dlet 6 Oil field v	water su	viad	9 Dev	vatering	מענון	her (Specify below) athodic Protection
<b>"</b>		2 Irrigation 4 Indu	strial 7 Domestic	(lawn&	garden)	I O MIO	moning wen	•	
sv	vSE	Was a chemical/bacte	riological sample subm	nitted to	Departmen	t'? Yes	No .	<u>آن</u>	f yes, mo/day/yrs
		Sample was submitted	1	Wate	r well disi	nfected	? Yes	No 🚣.	•
•	S	Cumpie // Care							
	-	VG USED: 5 Wrought	Iron 8 Concr	rete tile		CASIN	IG JOINTS: C	ilued	Clamped
			- 0.04		Laland		V	Velded	
13	Steel 3	ABS 7 Fiberglas or N/A in. to N/A	ss					Chreadec	
2.	PVC 4	N/A in to N/A	ft. Diameter	i	n. to	ft	., Diameter		in. to ft.
Cacina	seiakt aknye	land surface	III., WEIBIR		ibs./ft. W	all thic	kness or gua	ge No.	
TYPE	F SCREEN	OR PERFORATION MAT	EKIAL:						
	041	2 Stainlage Steel 5 Fib	erglass 7 PVC	9.4	ABS				- t-al-a
2	Brass	4 Galvanized Steal 6 Cond	crete tile 8 RM (SR)	) 10	Asbestos-C	ement	12 None us	ea (opei	i noic)
SCREE	N OR PERF	ORATION OPENINGS AR	<b>F</b> -					(a=== +	. (ala
1			7	orch cu	19 Drille	noles	ev TINOBE	(open n	uic)
2	Louvered s	s slot 3 Mill slot 5 G shutter 4 Key punched 6 V ATED INTERVALS: From	Vire wrapped 8 S	saw Cut V/A	10 Other	(speci	шу)	A *^	A
SCREE	n-perfor	ATED INTERVALS: From	ft. to	·····	IL.,	FIOIN .		ft to	ft
		ATED INTERVALS: From From PACK INTERVALS: From	N/A a to	N/A	11., A	From .		ft. to	A.
	GRAVEL	PACK INTERVALS: From	1 ft. to		ft.	From .		. ft. to .	ft.
		riou	1						
6 CPO	IIT MATE	RIAL: 1 Neat cement 2 From 60 ft. to 4	Cement grout 3 Ben	tonite	Other	opsou			
Grout I	otervale.	From 60 ft. to 4	ft., From 4		. ft. to		ft., From		ft. to ft.
What is	the nearest	source of possible contamin	ation:						
What is	Septic tank	4 Lateral line	s 7 Pit privy		tock pens		nsecticide Sto		16 Other (specify
2	Sewer lines	5 Cess pool	8 Sewage lagoon	l I Fuel s	torage		Abandoned wa		below)
1 3	Watertight	sewer lines 6 Seepage pit	9 Feedyard	12 Fertil	izer Stora	ge 15 C	il well/gas w	eli	*** / *** * **
Direction	on from well	? N/A		How mar	y feet? .N	1.	DI LICC	ING IN	TERVALS
FROM	1 TO 1	LITHOLOG		FROM		Dont		INO IN	I CK V MLO
0	5	Dark brown clay to fine ye	llow sand	60	4		nite Grout		
5	10	Reddish brown fine sand		4	0	Topso	PLL		
10		Dark brown fine sand		<b></b>		<del> </del>		- FC	LEIVED-
15	42	Medium sand with tan grav	rel	<b></b>		<del> </del>			
42		Red clay		<del> </del>		<del> </del>		FE	B 1 1 2009
				<del> </del>	_	Well	<u> </u>		D T T (111)
				4		WEII		Carrer - 9	Parla O
				<del> </del>	<del></del>	+			Beds Groundwater
				<del> </del>		+		мападе	ment District No. 2
			manno (mro); mi .		all mas (1)	L	neted (2) rea	Onetruc	ted or (3) plugged
7 CON	TRACTOR	'S OR LANDOWNER'S CI	ERTIFICATION: This	water w	ell was (1	onsti	ucica, (2) rec	onstruc f mv kn	owledge and belief.
under i	nv iurisdicti	on and was completed on (n	- /da/ane\ / '4 'V /	on	A INIX TECH	TA 18 111	ted on (210/12)	I THEY KILL	THIVUED WING AALIAN
Kansas	water wei	Contractor's License Ivo			hu (cianati	170}			C CYM
under t	he business	name of Pratt Well Enviro	nmental Face DDECC FIDIALV and 1	DDDDW -I-	ander Diames (	ill in bla	nke Ainderline oz	circle the	correct answers. Send to
INSTRI	JCTIONS: Us	e typewriter or ball point pen. <u>PL</u> Department of Health and Environr	nent, Bureau of Water, Geolo	ogy Section	, 1 000 SW J	ackson S	Suite 420, Tope	ka, Kansa	s 66612- 1 367. Telephon
785-29	96-5522. Se	nd one to WAILK WELL!	OWNER and retain one	for you	r records.	Fee of	\$5.00 for each	constr	uctea well. Visit us
http://po	ww.kdhe.state.l	s.us/geo/waterwells.		922-1212					