	AUTHORIZATION FOR EXPEN	DITURE - PROJECT R	EQUEST FORM	
PostRock'	AO MONIZATION FON EAFEN	DITORE - I ROSEOT I	PROJECT AFE#	D13 /57
COMPANY	PostRock MidContinent, LLC		PROJECT TYPE	
SSI#	636750		CAPITAL	x
WELL NAME	STICH, WILLIAM A 20-24		OPERATING	
PHYSICAL LOCATION	NW NE SEC 20 28S-19E		SUPPLEMENTAL	
COUNTY	NEOSHO			
PROVINCE / STATE	KS		BUDGET GROUP	CB NEW DRILL
PROJECT TYPE	DRILLING			
	PROJECT DES	CRIPTION / PURPOSE:		
initial drilling and completion wells along with increasing to beneficial for the area. The injector will be one of twinsure maximum sweep of complete the PVC pipe is capable manifold where all the inject wells. The injection pump will along the pump will be t	t Team recommends the drilling and completion of several wells in the oil zone, oil volumes shithe overall EUR from the zone, it was decided to vo injectors in the field that are in a inverted 5-soil. and cased with 5.5" casing and have lined 2.7/le of pressures up to 770 psi (475 psi required) ors and any additional future injection wells carrill be a Kimray glycol pump; the pumps are cap g the 5-acre, 5-spot waterflood injector would as	owed productive enough to one of drill a water injection well in pot pattern. The injectors are /8" tubing with a nickel packet and costs less than \$1.00 per the added and a metering valuable of moving the low volumes.	entinue to expand. To incito the formation and test if a lined down the middle of the injection lines will be resulted to control the will be used to control es at the high pressures results.	rease the daily volume of the far waterflood would prove the thickest section to be 3/4" Schedule 120 PVC will be connected to a the flow to the individual
Dev. Cost Gross RR Undiscounted Payout PV10 / Investment Cumulative Cash Flow Price Deck RESERVE REPORT INFO Total Reserves Type Curve PREPARED BY: ACCOUNTING REVIEW	\$2.80 \$ / Net 72.13% % 1.64 years 1.29 \$205,076.00 June NYMEX 5.811 MBBLS CB Waterflood	TOTAL COST \$ 73,187.46 Distribution List: Terry Carter Clark Edwards Jeff Buterbaugh David Van Dyke Clayton Deering Marvin Lacy APPROVALS: Initiator:	WORKING INTEREST 100.0% Troy Combs Jennifer Beal Michael Cassillo Doug Klaassen Mark Garretson Janet Hollister	
Reviewed by: COMMENTS:	Date			6-27-13

PostRock'	AUTHORIZATION FOR EXPENDITURE - PROJECT COST FORM					
COMPANY	PostRock MidContinent, LLC	DATE:	6/24/2013			
SSI#	636750					
WELL NAME	STICH, WILLIAM A 20-24					
PHYISCAL LOCATION	NW NE SEC 20 28S-19E					
COUNTY	NEOSHO					
PROVINCE / STATE	KS					
PROJECT TYPE	DRILLING					

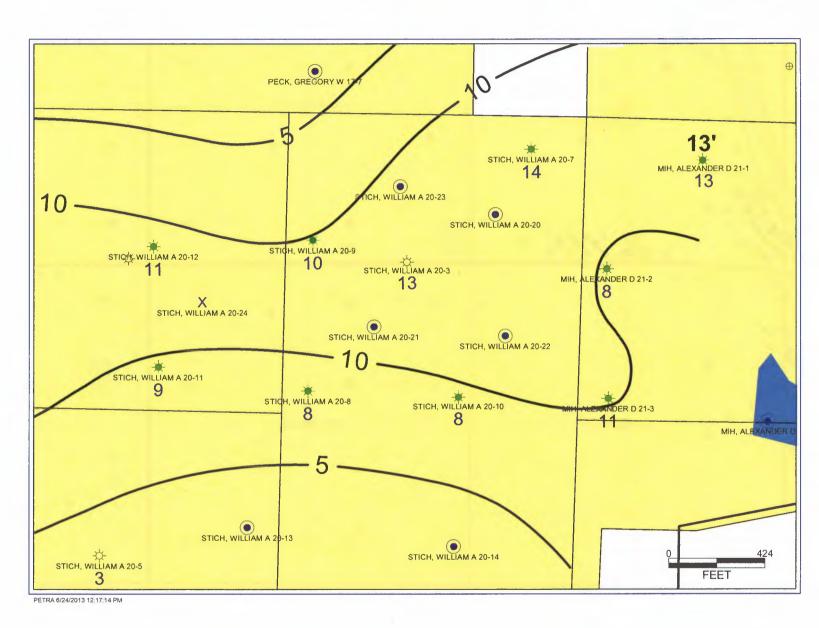
ACCOUNTING CODE	CATEGORY NAME	CATEGORY COST	
101	Drilling Service	\$11,038.32	
105	Surface Damages	\$492.42	
107	Location Preparation	\$3,958.31	
116	Casing Surface	\$462.47	
201	Completion Service	\$27,074.35	
209	Contractor Flowline	\$3,148.75	
211	Downhole Equipment	\$8,760.48	
212	Electrical Equipment	\$4,967.99	
213	Flowline Materials	\$2,500.00	
215	Fence & Gates	\$516.74	
216	Wellhead Equipment	\$10,000.00	
243	Flowline ROW/Easement	\$267.63	
	AFE Costs Total	\$73,187.46	
	LOE Costs Total	\$0.00	
	TOTAL COST	\$73,187,46	

DATE : 06/26/2013
TIME : 16:37:59
DBS : PSTR
SETTINGS : PSTR0613
SCENARIO : PSTR0613

RESERVES AND ECONOMICS

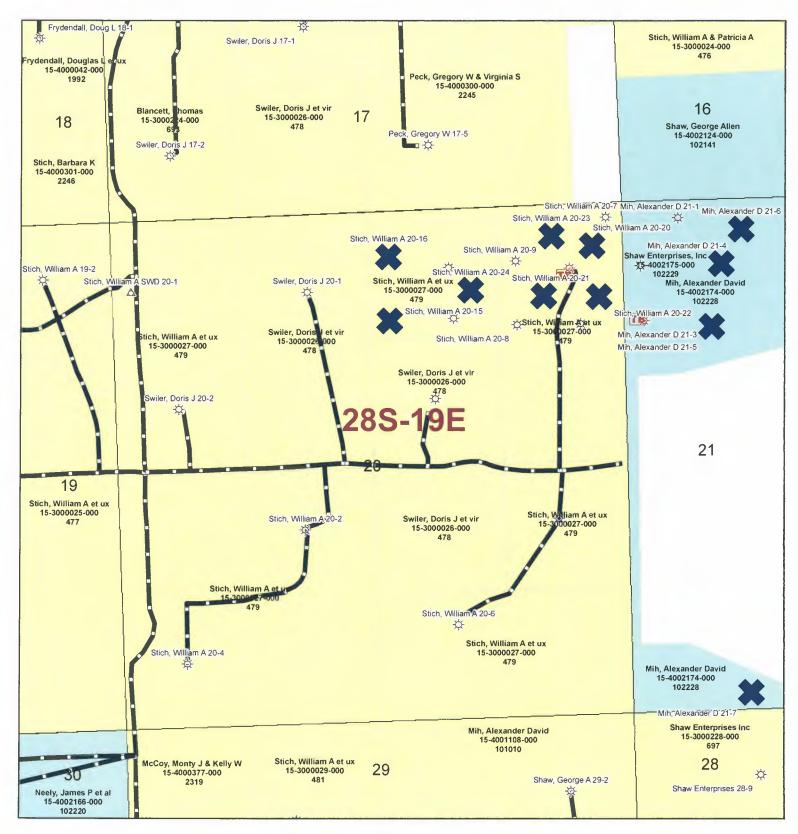
AS OF DATE: 06/2013

				AS OF DAT	L. 00/2013				
END MO-YEAR	GROSS OIL	GROSS GAS	NET OIL PRODUCTIONMBBLS	NET GAS	NET OIL PRICE	NET GAS	NET OIL SALES	NET GAS SALES	TOTAL NET SALES
	MBBLS	MMCF	MBBLS	MMCF	\$/BBL	\$/MCF	M\$	M\$	M\$
06-2012	0 000	0 000	0.000	0 000	0 000	0 000	0 000	0.000	0 000
00-2013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07-2013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
08-2013	0.174	0.000	0.146	0.000	86.000	0.000	12.536	0.000	12.536
09-2013	0.135	0.000	0.113	0.000	86.000	0.000	9.697	0.000	9.697
10-2013	0.104	0.000	0.087	0.000	86.000	0.000	7.501	0.000	7.501
11-2013	0.081	0.000	0.067	0.000	86.000	0.000	5.802	0.000	5.802
			0.000 0.000 0.146 0.113 0.087 0.067 0.052						
12-2014	0.569	0.000	0.476 0.378 0.318 0.278 0.248	0.000	83.000	0.000	39.494	0.000	39.494
12-2015	0.452	0.000	0.378	0.000	80.000	0.000	30.215	0.000	30.215
12-2016	0.381	0.000	0.318	0.000	78.000	0.000	24.838	0.000	24.838
12-2017	0.333	0.000	0.278	0.000	77 000	0.000	21 411	0.000	21 417
12-2018	0.297	0.000	0.248	0.000	76,000	0.000	18 884	0.000	18 884
12-2019	0.270	0.000	0.226	0.000	75.000	0.000	16.927	0.000	16.927
12-2020	0.248	0.000	0.208	0.000	75.000	0.000	15.563	0.000	15.563
12-2021	0.230	0.000	0.226 0.208 0.193	0.000	75.000	0.000	14.444	0.000	14.444
S TOT	3.337	0.000	2.790	0.000	79.507	0.000	221.800	0.000	221.800
* Em E D	2 474	0.000	2.069	0.000	75 000	0.000	155 145	0.000	155 145
TOTAL	5.811	0.000	4.858	0.000	77.588	0.000	376.945	0.000	376.945
END	AD VALOREM	PRODUCTION	DIRECT OPER	INTEREST	CAPITAL	EOUITY	FUTURE NET	CUMULATIVE	CUM. DISC.
MO-YEAR	TAX	TAX	EXPENSE	PAID	REPAYMENT	INVESTMENT	CASHFLOW	CASHFLOW	CASHFLOW
	M\$	M\$	EXPENSE	M\$	M\$	M\$	M\$	M\$	M\$
06-2013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
07-2013	0.000	0.000	0.000	0.000	0.000	73.187	-73.187	-73.187	-72.608
08-2013	0.188	0.325	0.273	0.000	0.000	0.000	11.750	-61.437	-61.089
09-2013	0.145	0.251	0.273	0.000	0.000	0.000	9.027	-52.410	-52.309
10-2013	0.113	0.194	0.273	0.000	0.000	0.000	6.921	-45.489	-45.632
11-2013	0.087	0.150	0.273	0.000	0.000	0.000	5.292	-40.197	-40.566
12-2013	0.067	0.116	0.000 0.000 0.273 0.273 0.273 0.273 0.273	0.000	0.000	0.000	4.031	-36.166	-36.738
12-2014	0.592	1.023	3.276	0.000	0.000	0.000	34.603	-1.563	-5.444
12-2015	0.453	0.783	3.276	0.000	0.000	0.000	25.703	24.140	15.675
12-2016	0.373	0.643	3.276	0.000	0.000	0.000	20.546	44.686	31.016
12-2017	0.321	0.555	3.276	0.000	0.000	0.000	17.259	61.945	42.729
12-2018	0.283	0.489	3.276 3.276 3.276 3.276 3.276	0.000	0.000	0.000	14.836	76.781	51.881
12-2020	0 233	0.403	3 276	0.000	0.000	0.000	11 650	101 391	65 085
12-2021	0.233	0.374	3.276 3.276 3.276	0.000	0.000	0.000	10 578	111 968	69 986
S TOT	3.327	5.745	27.573	0.000	0.000	73.187	111.968	111.968	69.986
AFTER	2.327	4.018	55.692	0.000	0.000	0.000	93.108	205.076	94.079
TOTAL	5.654	9.763	83.265	0.000	0.000	73.187	205.076	205.076	94.079
		OTT	0.0 0.000 0.000 0.000 0.000 0.000 0.000 0.000				D W	2 D M	MS
		0111	GAS					i	
GROSS WE	1.1.5	1 0	0.0	ITER VI	25	25 59	5	00 133 7	21
CROSS NE	T MD C MMC	5 011	0.0	DISCOUNT	r 2	10.00	0.	00 107.5	20
CROSS OF	M MD c MME	0.011	0.000	DISCOON	IMMED DAVOUM	VDC 1.64	0.	00 107.3	71
CROSS CUI	m., MD & MMF	0.000	0.000	DISCOU	JNIED PAIOUI,	1K5. 1.04	9.	00 100.4	71
GRUSS RE	o., MB & MME	5.811	0.000	DISCOUN	TED PAYOUT, YE	1.84	10.	94.0	19
NET RES.	, MB & MMF	4.858	0.000	UNDISCO	JULED NET/INVE	551. 3.80	15.	00 69.4	21
NET REVE	NUE, MŞ	3/6.945	0.000	DISCOUN	TED NET/INVEST	2.30	20.	52.7	pg
INITIAL	PRICE, \$	86.000	0.000	RATE-OF-	-RETURN, PCT.	72.13	30.	00 31.5	50
INITIAL	N.I., PCT.	83.600	0.000	INITIAL	W.I., PCT.	100.000	40.	00 18.4	88
							100.	00 -12.0	18
							300.	00 -30.9	53





YEAR SSI NUMBER	Al	PI NUMBER	GID NUI		EXPIRATION DATE
2013 6 36 750			20100)794 479	HBP
PROSPECT AREA Thayer					WELL TYPE
WELL NAME STICH, WIL	LIAM A 20-24	-		DEV Y	2013 SWD 0
COLUMN OT	050	Y	LOCATION	100.070	LOOFTO
COUNTY, ST	SEC	TWP	RGE 105	LOC QTR	LOC FTG
NEOSHO COUNTY, KS	20	285	19E	NW NE	865 FNL & 1590 FEL
OBJECTIVES CATTLEMAN	650 FT				GAS CONTENT DATA REQUIRED
ELOGS GR/CNDL/DIL REQUIRED ALL LOGS. TD-SURFACE					N
TOPO/SURVEY EVALUATION			OTAL DEPTH - PRO	MECTED	TD PERMITTED
920 FT			770 FT	OLOTED	1000 FT
SURFACE CASING 8 5/8 @ 20 FT+/-	PROD C		HOLE SIZE	POOLING LSE & POO	PHASE 2013:PH02013
8 3/8 @ 20 114/-	3	,	/ //6	LSE & FOC	2013.71102013
SUMMARY 0					
COMMENTS Injection Well					
			_AND		
IS THIS LOCATION AT LEAST 330' FOR GA	AS WELL OR 485' FO			NE? YES NO	NET DOTD NO
_			TOTALES I LEASE EII	AC: TIES TIMO	
LEASE ALLOWS POOLING	YES	NO			PSTR W 1.00
LEASE ACRES	DDII MARV TE	RM OF LEASE ENDS			OTHER WIO
LEASE AURES	PRIMARTIE	RM OF LEASE ENDS			
SPACING		P	OOLED LEASES		
LOCATION EXCEPTION		41	ICREASED DENSITY		
DRILLING TITLE OPINION			#400 URFACE DAMAGES		T1180
Jalle Ann L O Ami	CIA STICH	5	URFACE DAMAGES	PAID TO	
WILLIAM + PATRI SURFACE OWNERS NAME	UH STICK		· · · · · · · · · · · · · · · · · · ·		
15305 JACKSON			< 66721	621	0.763.2511
ADDRESS		ATT TO JE	2 00120	PHONE	100 - 211
	<u> </u>				
LETTER AGREEMENT MAILED		OPERATING AGREEMENT	MAILED	SWD AGRE	EMENT
DATE RETURNED		DATE RETURNED		WELL NAME	
BATE RETOTALED		DATE RETORNED		TYCLL I WHAT	
OTHER CONSIDERATIONS					
////		APP	ROVALS /		
DVD //n		6/18/2013	>	D V(6-19-13 DATE
PROPOSAL MITIATED BY		DATE	APPROVED		DATE
GEOLOGY APPROVED		DATE DATE	RES ENGINFF	ERING APPROVED	DATE
PROD ENG APPROVED		DATE	PROPOSAL IN	ITIATED BY	DATE



Stich, William A 20-24 865' FNL 1590' FEL 20-28S-19E Neosho County, KS 1" = 1,000'





Stich, William A 20-24 865' FNL 1590' FEL 20-28S-19E Neosho County, KS 1" = 1,000'

